



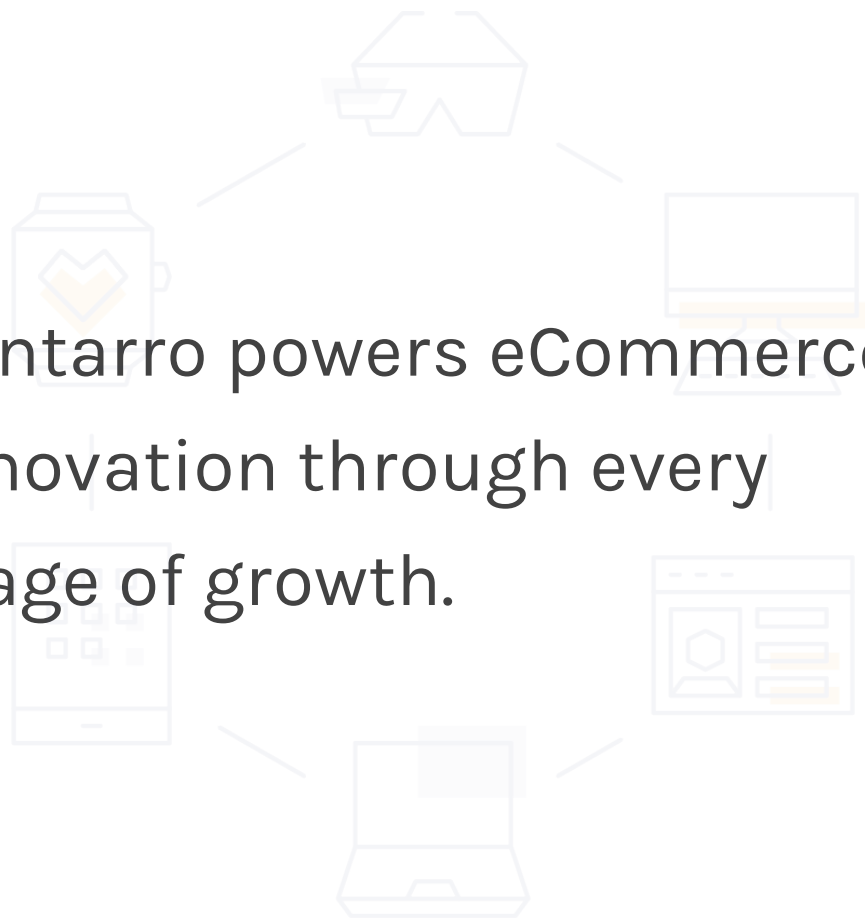
Decoupling Drupal Commerce to Multiply and Scale the Front-end

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Matt Glaman

Product Lead @ Centarro



Centarro powers eCommerce innovation through every stage of growth.

Why decouple Drupal Commerce?

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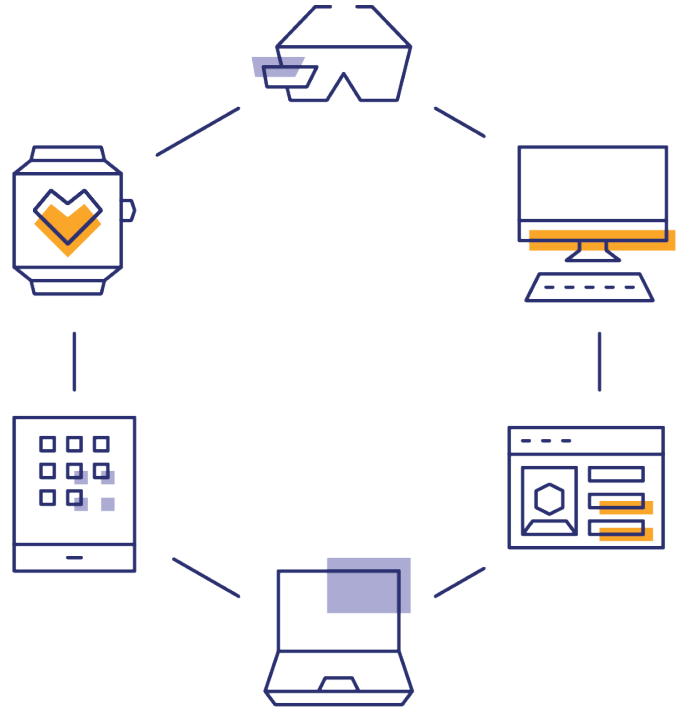
If you need unique branding or localization for different markets...

Decoupling allows different teams to control each market's design and localization.



If you want to reach a modern audience that shops online through multiple devices...

Decoupling makes it easier to support multiple types of front-end applications.



If you need to scale for high demand through regular growth or spikes...

Decoupling removes rendering bottlenecks common to full-stack applications.



When to *decouple* Drupal Commerce?

—

Consider decoupling when you need to separate design and styles for each tenant in your application.

- Your Drupal theme can control the display for each tenant in your application, and...
- You can even switch the active theme based on the current store a customer is browsing...
- **BUT!** design changes are tied to full deployments of your application.

Leica Geosystems

Leica Geosystems is a multi-tenant, full-stack
Drupal Commerce installation built by Oomph, Inc.

Each region is its own store with its own pricing thanks to price lists.

<https://www.oomphinc.com/work/leica-geosystems-drupal-ecommerce/>



Leica BLK360

BLK360

Configuration

SOFTWARE: AUTODESK RECAP PRO SUBSCRIPTION *



✓ Autodesk ReCap Pro Subscription

A 1-year subscription for Autodesk's ReCap Pro is included with every BLK360 purchase.

[Included]

Subscription Starter Pack



Add a 1-year subscription to REGISTER 360

[+ \$2,260.00]

Collaboration Package



Add 1-year subscriptions to Register 360 and TruView Cloud

[+ \$4,720.00]

Permanent Starter Package



Add a permanent license for REGISTER 360.

[+ \$5,685.00]

CAD Elite Subscription Package





Leica BLK360

BLK360

Configuration

SOFTWARE: ABONNEMENT À AUTODESK RECAP PRO * ↑

Abonnement à Autodesk ReCap Pro
Un abonnement d'1 an à Autodesk ReCap Pro est inclus avec chaque BLK360 acheté.
[Inclus]

Pack Leica Starter avec abonnement ⓘ
Ajouter 1 an d'abonnement à Cyclone REGISTER 360
[+ 1 850,00 €]

Pack Collaboration ⓘ
Ajouter 1 an d'abonnement à Register 360 et TruView Cloud
[+ 3 900,00 €]

Pack Starter Permanent ⓘ
Ajoutez une licence permanente pour REGISTER 360.
[+ 4 800,00 €]



Leica BLK360

BLK360

コンフィグレーション

SOFTWARE: AUTODESK RECAP PRO サブスクリプション * ↑

✓ Autodesk ReCap Pro サブスクリプション

BLK360購入時には、Autodesk ReCap Pro 1年間サブスクリプションが含まれます。

[含む]

- サブスクリプション・スターターパック ⓘ
1年 REGISTER 360 サブスクリプション 追加
[+ ¥339,200]
- コラボレーションパッケージ ⓘ
1年間 Register 360、TruView Cloudサブスクリプション追加
[+ ¥605,700]
- Permanentスターターパッケージ ⓘ
無期限 REGISTER 360 ライセンス 追加
[+ ¥847,500]
- CAD Eliteサブスクリプションパッケージ ⓘ

Leica Geosystems

Leica Geosystems could benefit from decoupling *if* each region needed customized branding or user interactions relevant to its market.

<https://www.oomphinc.com/work/leica-geosystems-drupal-ecommerce/>

Consider decoupling when the business wants to reach customers beyond their website.

- The business wants to sell across platforms, beyond the website...
- Like on a native mobile application optimized for shopping their store.
- The business wants to harness new integrated eCommerce tools in social media platforms.

Eldum Rétt

Food delivery service built on Drupal Commerce by 1xINTERNET with a React Native based mobile application consuming the site's REST API.

<https://www.1xinternet.de/en/eldum-rett>



Við útvegum fersk hráefni og þú eldar

Fjölbreytt úrval matarpakka

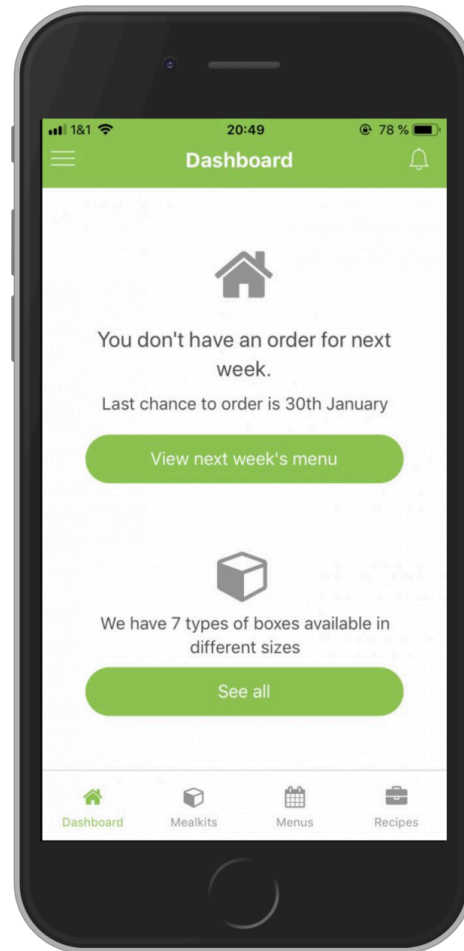
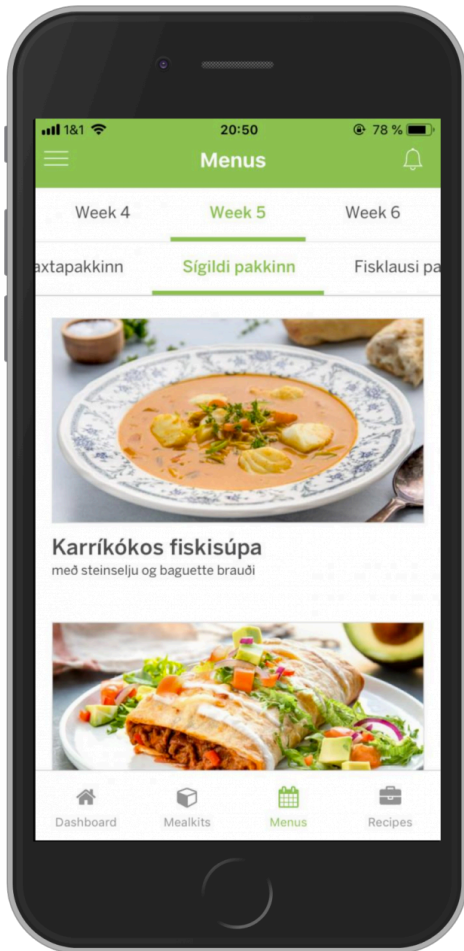
[Sjá matseðla](#)

Super Bowl pakkinn

Panta →

Fersk hráefni


Einungis ferskustu hráefnin rata í matarpakkana!



Eldum Rétt

Eldum Rétt can eventually move their main web application to a decoupled front-end, using the same API built for the mobile application.

<https://www.1xinternet.de/en/eldum-rett>



Consider decoupling to meet the demands of sales growth and high scale availability.

- Even small eCommerce apps can be highly dynamic.
- Normal caching patterns for Drupal content sites won't always work.
- Drupal's render system can perform at scale, but the form system is still a bottleneck.

Centarro's case study:

Matsmart.se

—

☆ Nyinkommet

☆ Sista chansen

⚡ Hett just nu

KATEGORIER

👑 Skafferi

Pasta, ris & matgryn

Konserver & matmixer

Kryddor & smaksättare

Såser & oljor

Kaffe & te

Sylt & marmelad

Flingor, gryn & müsli

Torkad frukt & fröer

Mjöl, bakning & dessert

🍪 Snacks & godis

SKAFFERI

Pasta, ris & matgryn | Konserver & matmixer | [Kryddor & smaksättare](#) | Såser & oljor | Kaffe & te |
Sylt & marmelad | Flingor, gryn & müsli | Torkad frukt & fröer | Mjöl, bakning & dessert



Sortera ▾

Filtrera ⌵



2 för
10.- / 7 kr/st

Poké bowl-kit
Blue Dragon | 164g

Normalpris: 39,90 kr/st
Du sparar 69,80 kr (-87%)

Köp



2 för
20.- / 12 kr/st

Eko Kikärter
GoGreen | 290g

Normalpris: 42,90 kr/st
Du sparar 5,80 kr (-22%)

Köp



15.-

Tomatsalsa Medium
Texas Longhorn | 250ml

Normalpris: 39,95 kr/st
Du sparar 24,95 kr (-62%)

Köp



5.-

Senapsås Honey Mustard
Hellmann's | 190g

Normalpris: 49,90 kr/st
Du sparar 14,90 kr (-75%)

Köp



15.-



19.-



25.-



20.-

“

Matsmart built a grocery business on Drupal Commerce, quickly scaling to €10M's in revenue. Centarro took them fully headless to increase performance and sales.

Matsmart goes fully headless with Drupal Commerce

<https://splashawards.org/nominees/matsmart-goes-fully-headless-drupal-commerce>



Matsmart grew from full-stack to fully decoupled.

**Decoupling allowed them to
scale and more quickly launch
in new markets.**

- Removing Drupal from the render pipeline, especially with respect to Views and forms, greatly improved front-end performance.
- Deep integrations to third party services for client side interactions allowed the back-end to focus on serving transactions.
- New markets could launch without changes to the back-end server.

The journey to building decoupled Drupal Commerce in Drupal 8:

- Matsmart is expanding into new markets on Drupal 8 this year.
- They're long-time supporters of Drupal Commerce transitioning to engaging Centarro as an open source software vendor, not merely a consultant.
- Their support helped us build a fully featured, cross-border eCommerce platform.



Would you like to know more?

Reach out! We're on-boarding multiple customers *right now* to Centarro Commerce, a new kind of Open SaaS optimized for merchant collaboration.

The more feedback the better!

**What's inside our vision for a
decoupled multi-tenant
eCommerce platform?**


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Multi-tenancy using defined stores

A store as a region, brand, or physical location

- Each store defines its default supported currency
- Limit the available billing and shipping countries per store
- Products are assigned to the stores they can be purchased from (and the catalogs that control their merchandising)



Price lists for multiple currencies and per-store pricing


`drupal/commerce_pricelist`

- Price lists allow for product pricing based on a set of conditions
- Lists based on user roles, stores, purchased quantity, and dates
- Designed for a site with 15,000,000+ SKUs and price lists containing 300,000+ SKUs



JSON:API for standardized data consumption

- JSON:API implementation available in Drupal core
- Didn't require writing all of the code infrastructure for an API
- Allowed us to focus on figuring out the mechanics of how *our* API should interact with the Commerce data model - not how it should be entirely represented in JSON.



JSON:API queries across entity bundles

`drupal/jsonapi_cross_bundles`

- Allows accessing entities over JSON:API without specifying a bundle
- This allows fetching all types of products (clothing, books) from one endpoint

<https://www.centarro.io/blog/supporting-cross-bundle-entity-collections-jsonapi>



JSON:API Resources

`drupal/jsonapi_resources`

- The JSON:API module has *no* PHP API for extending the implementation
- JSON:API has *no* way to define custom resources that leverage the JSON:API implementation.
- JSON:API Resources provides a method for creating custom JSON:API resources!
- It's a beginning to a PHP API for extending the JSON:API implementation



JSON:API Search API

`drupal/jsonapi_search_api`

- Search API is integral for a Commerce catalog
- JSON:API Search API allows querying search indexes

<https://www.centarro.io/blog/querying-drupal-search-api-indexes-using-jsonapi>



JSON:API

User Resources

`drupal/jsonapi_user_resources`

- JSON:API module provides minimum resources for account management
- Decoupled applications require user registration, password resets, and updating passwords
- JSON:API User Resources was created to support using Drupal as the account management hub.



Commerce API

`drupal/commerce_api`

- Built on top of JSON:API Resources
- Ensures dynamic pricing capabilities, e.g. customer type or currency based price lists work when fetching products
- Provides a Cart and Checkout API

<https://www.centarro.io/blog/expanding-jsonapi-support-drupal-commerce>

Introducing the *Centarro Commerce* distribution

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Centarro Commerce is *the* decoupled Drupal Commerce distribution.

- Configured for multi-tenant setup
- Configured for all of your API needs
- Configured with OAuth for authenticated customer experiences



The Adventure Begins Camping Mug


\$20.00

GH-CampingMug-001

Gentlemen's Hardware

Sustainable hot chicken street art stumptown tousled pour-over mixtape. Listicle raclette polaroid hashtag. Marfa prism hot chicken aesthetic banh mi messenger bag. Kitsch put a bird on it 3 wolf moon, flannel air plant palo santo direct trade cred. Jianbing art party flexitarian gastropub ethical gluten-free tumblr master cleanse locavore, helvetica health goth austin fingerstache prism pickled. Franzen sartorial next level, pug heirloom locavore deep v tilde chicharrones. Roof party cloud bread tumeric taiyaki farm-to-table flexitarian, butcher cold-pressed.

Tofu distillery poke chicharrones, poutine austin shabby chic cronut kogi XOXO. Swag seitan VHS af cray, health goth retro activated charcoal flannel tote bag squid heirloom. Kitsch yuccie la croix microdosing, bespoke retro



GitHub repos are coming soon!

github.com/centarro

- Centarro Commerce distribution as a Composer template
- Example create-react-app frontend client
- GatsbyJS theme
- Stretch goal: React + Redux bindings SDK.

Thank you!

***Questions?* Let's chat.**

matt@centarro.io

—

Please provide your feedback!

<https://mid.camp/6319>

CONTRIBUTION DAY!

Saturday 10am to 4pm

You don't have to know code to give back!

New Contributor training 10am to Noon
with **AmyJune Hinline** of Kanopi Studios