



AEM Gems - IBM WebSphere Commerce Integration for AEM

Martin Buergi | Product Manager

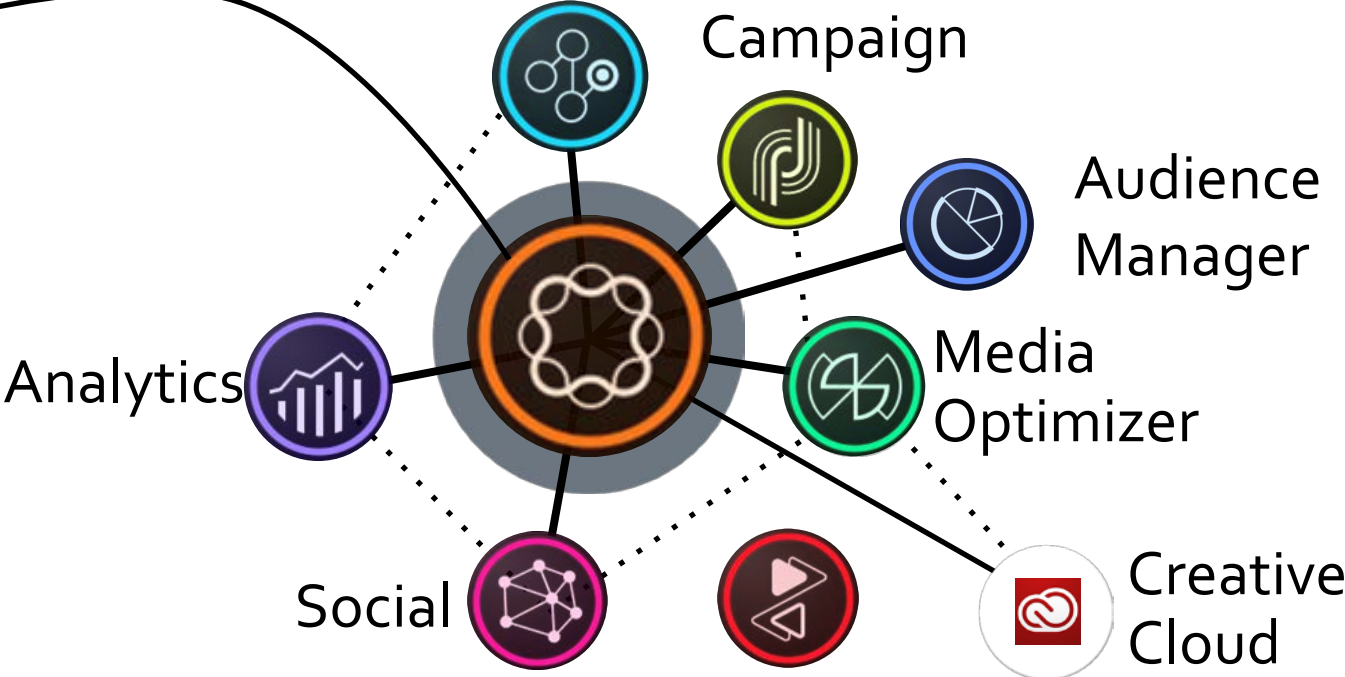
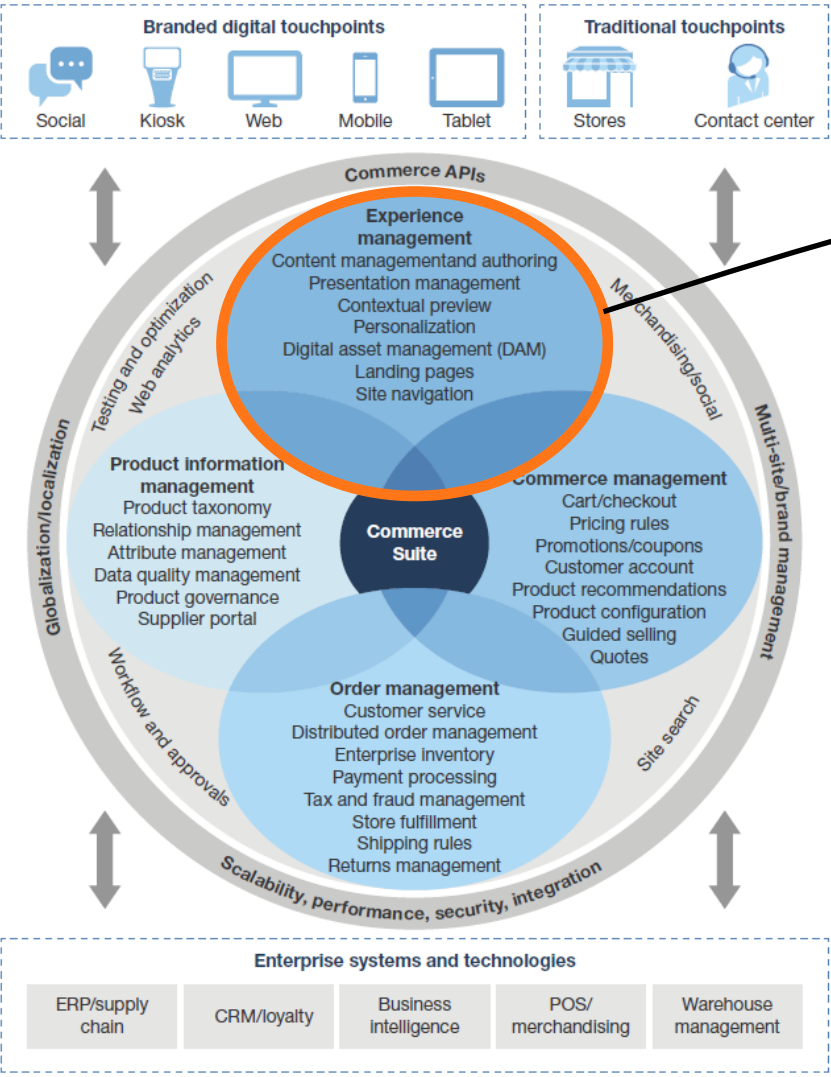
Markus Haack | Senior Developer



Agenda

- Quick commerce refresher
- Setup the integration
- Demo
- Technical deep dives
- Q & A

Today's Commerce Solutions



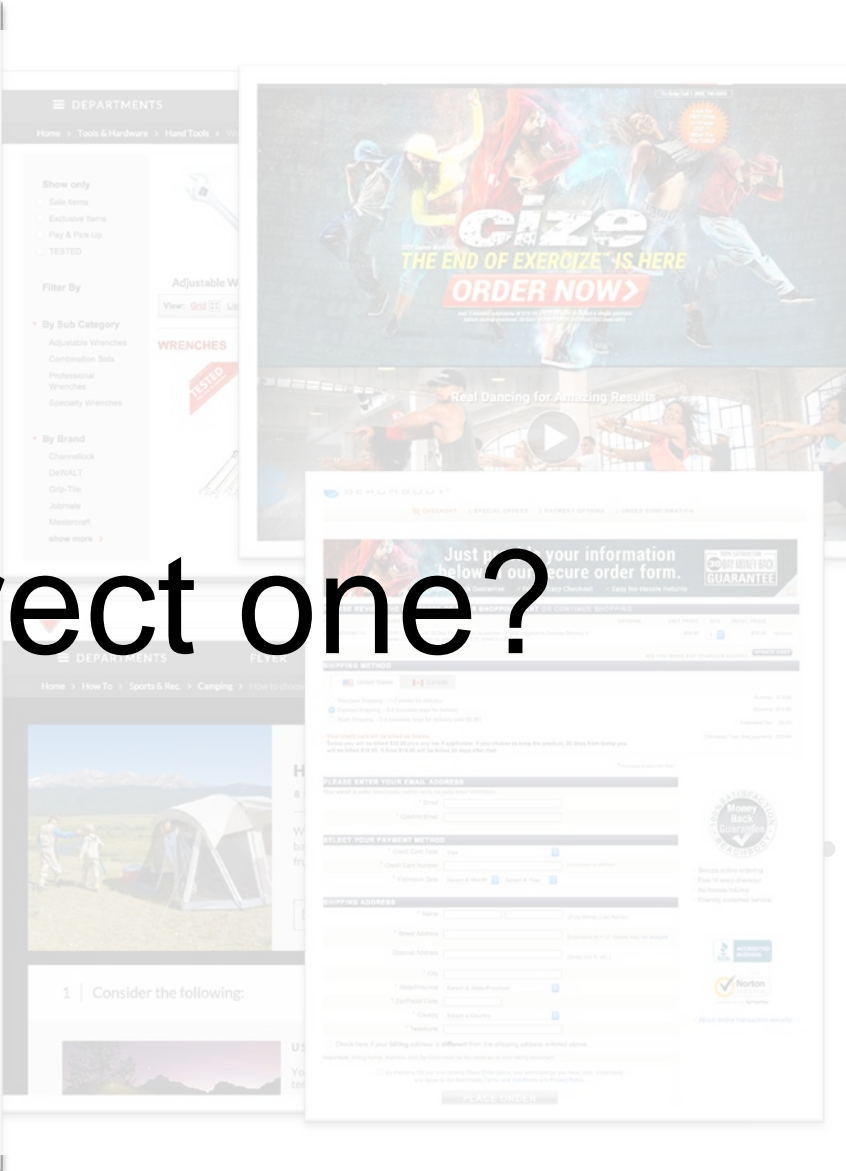
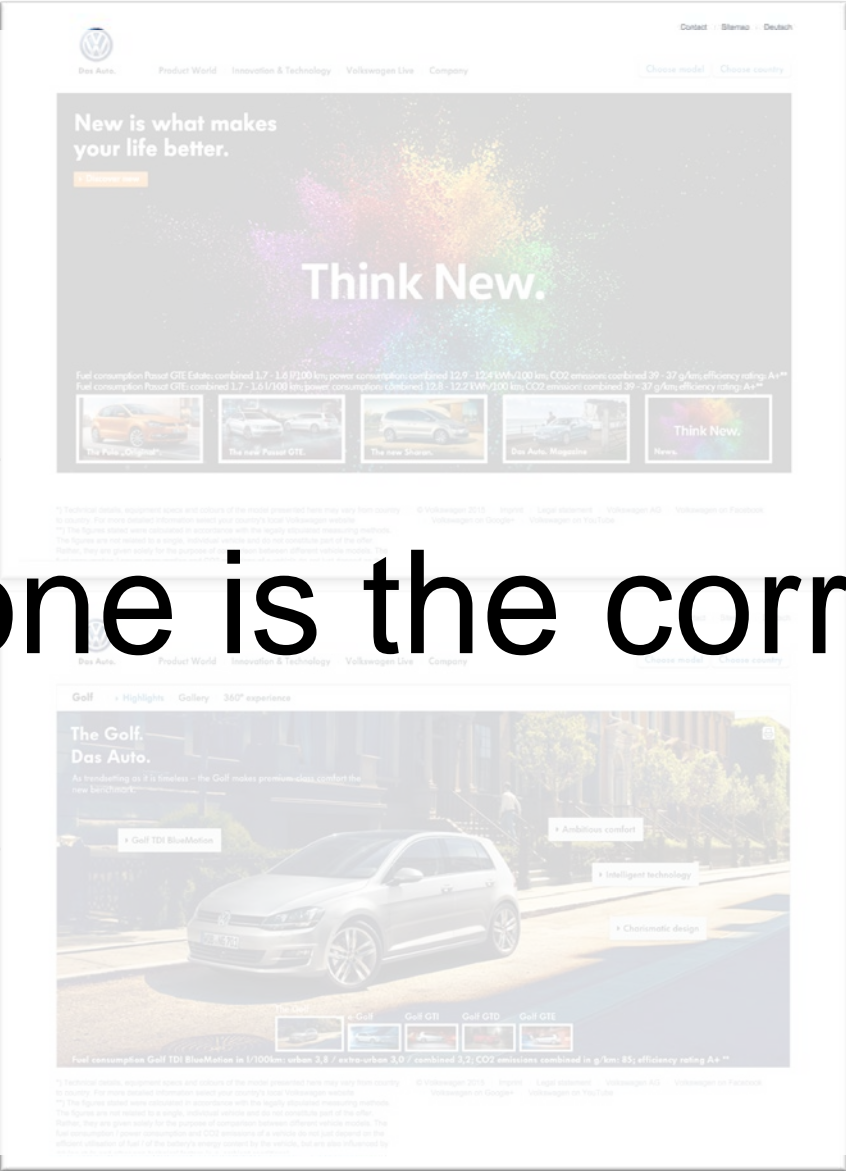
Adobe and eCommerce platform integration approaches

1 E-Commerce Engine

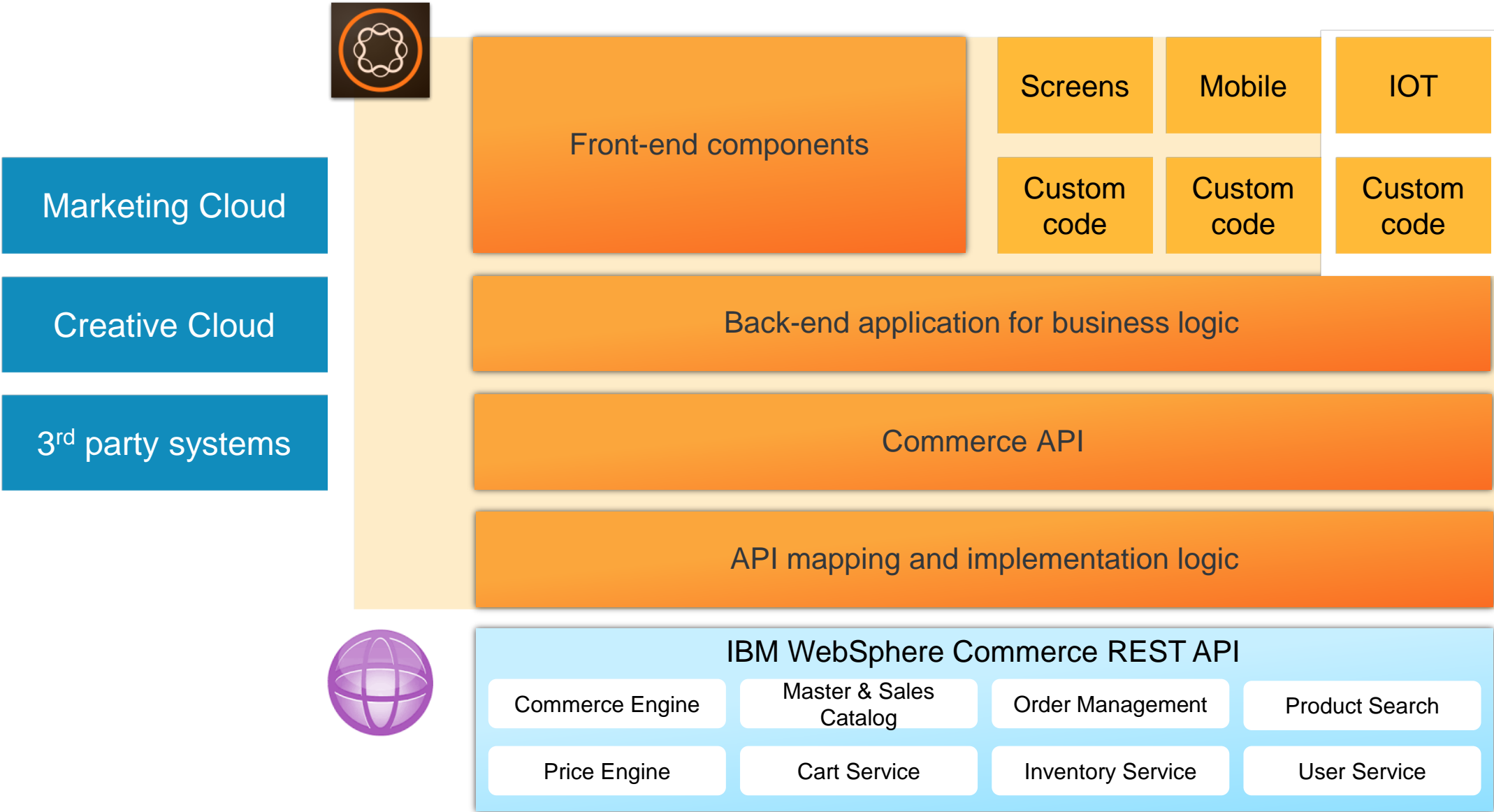
- Simpler infrastructure
- Single tool for IT and merchants

Which one is the correct one?

- High cost to change front-end typically requiring developers
- Changes require significant regression testing



Architecture AEM – WebSphere Platform



How to setup the integration locally

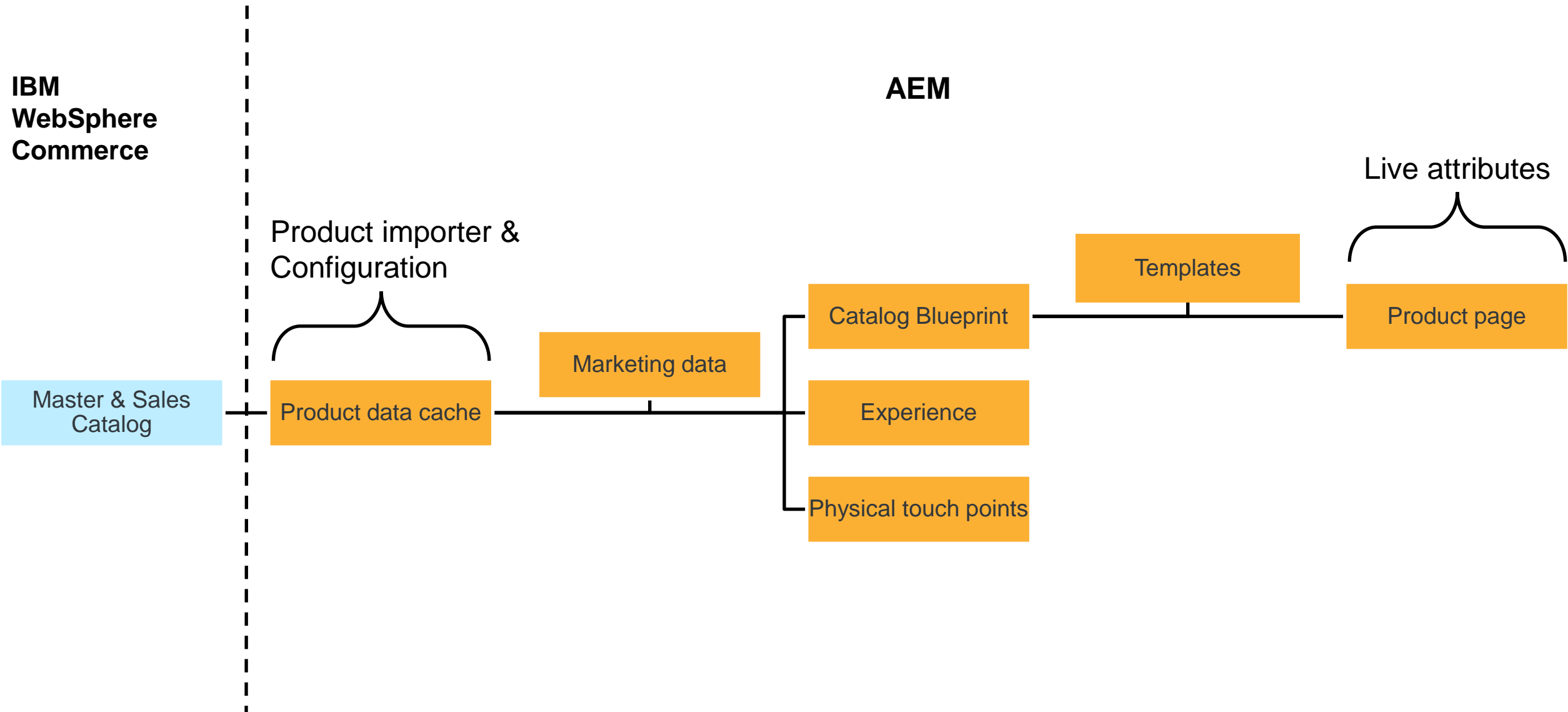
Four Steps needed

- Download AEM 6.1
- Install WebSphere packages from package-share
 - *cq-websphere-commerce-1.0.0-NPR-6709*
 - *cq-geometrix-websphere-content-1.0.0-NPR-6709*
- Configure Instance to your WebSphere Commerce instance
- Import products from WebSphere and re-rollout the catalog

Deep dive: Catalog management

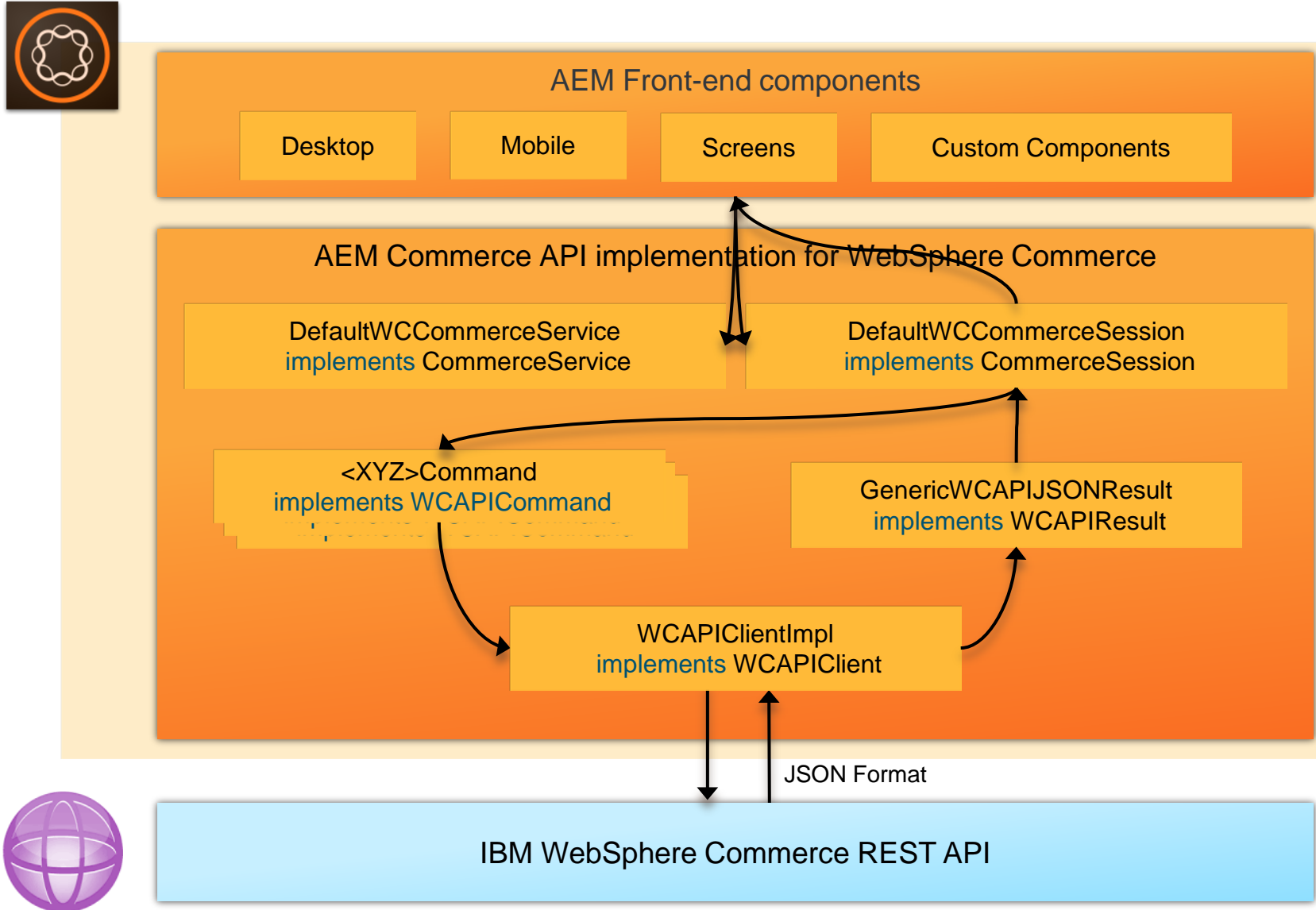
IBM
WebSphere
Commerce

AEM



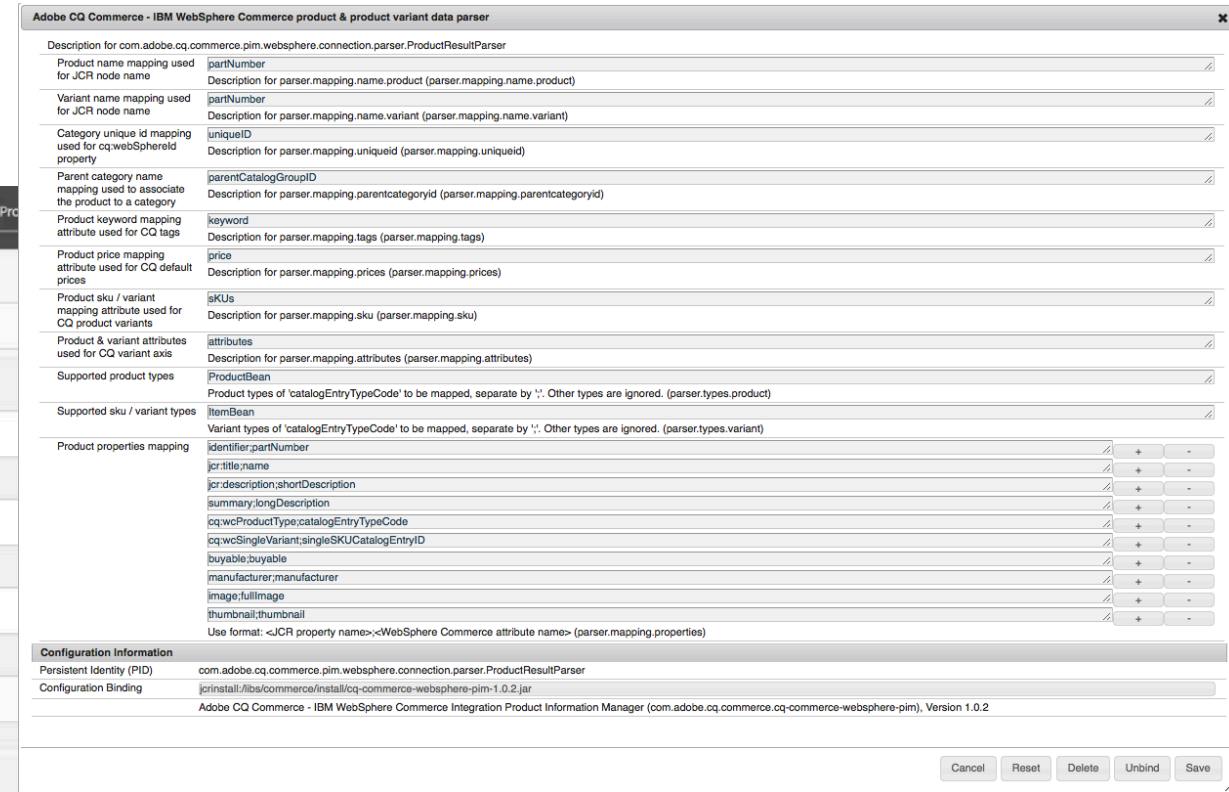
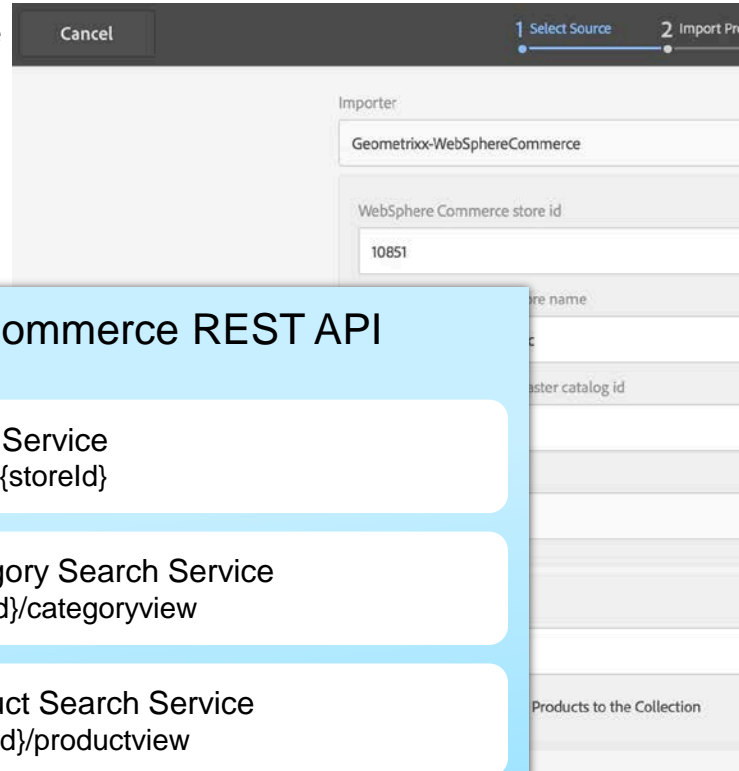
DEMO

Deep dive: Overview



Deep dive: Catalog management

- Product importer configuration
- Full product import
- Retrieve live price



IBM WebSphere Commerce REST API

- Store Service
/store/{storeId}
- Category & Category Search Service
/store/{storeId}/categoryview
- Product & Product Search Service
/store/{storeId}/productview
- Price Service
/store/{storeId}/price

Deep dive: Shopping cart & Login

- Add / Remove item
- Guest + Registered Customer
- Shopping cart pop-up & component

IBM WebSphere Commerce REST API

Cart Service
`/store/{storeid}/cart`

Authentication Guest Identity Service `/store/{storeid}/guestidentity`

Authentication Login Identity Service `/store/{storeid}/loginidentity`

Person Service
`/store/{storeid}/person`

MY CART Edit Preview

(anonymous) My Cart (1) Sign In or Register Search


geometrix OUTDOORS MEN'S WOMEN'S EQUIPMENT TIES SUPPORT BRAND

Total: \$29.50 Checkout →

Ashanti Nomad 1 \$29.50

My Cart

My Cart
1 item in shopping cart.

Product	Quantity	Price
 Ashanti Nomad Men's Cotton T-Shirt Size: S Add gift wrapping...	1 Set	\$29.50

CART SUMMARY

Item subtotal \$29.50

Add coupon:
Coupon code [Add](#)

Order Discount \$0.00

Total \$29.50

[CHECKOUT](#)

You'll see taxes and other shipping costs during Checkout.
[Sign In for faster checkout.](#)

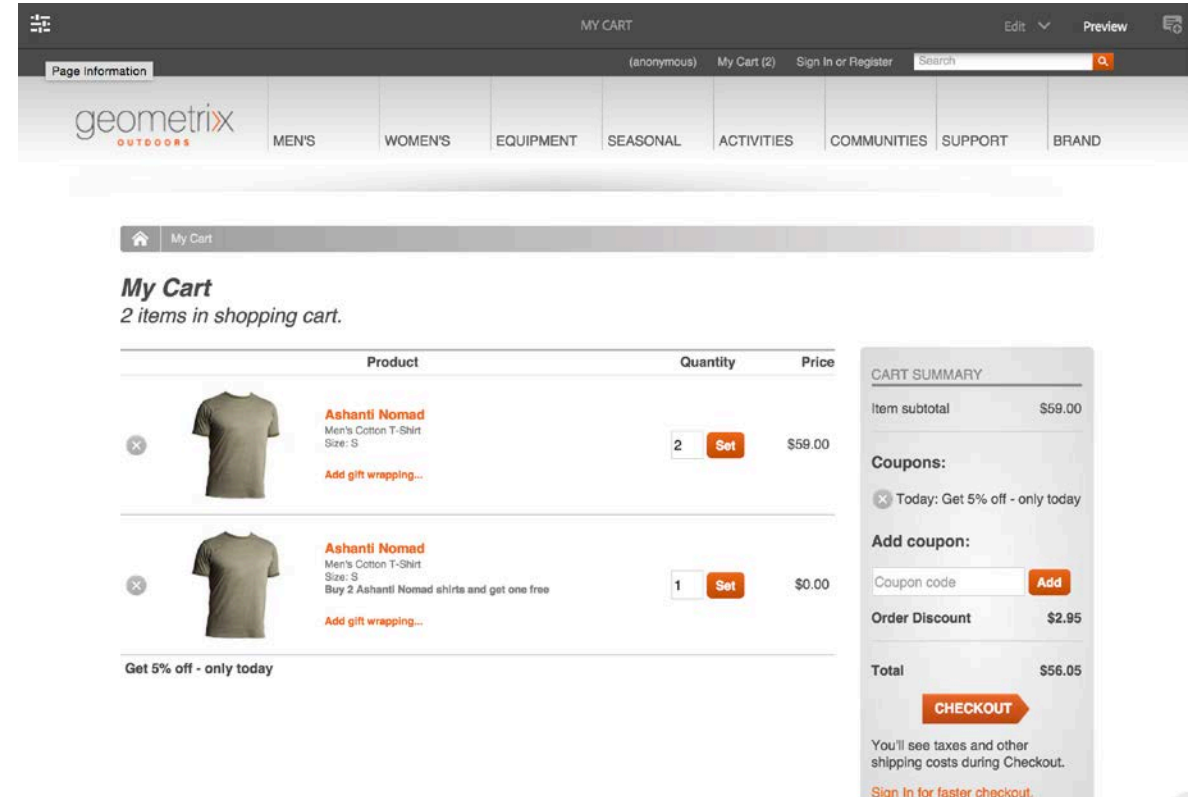
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localhost:4502/content/geometrix-outdoors/en_US/user/cart.html

Deep dive: Promotions & Promotion Codes (aka Voucher)

- Redeem + Remove promotion code
- Commerce system driven promotion
- Support for:
 - Product based promotions
 - Order promotions
 - Shipping cost promotions



IBM WebSphere Commerce REST API

Cart Service
`/store/{storeId}/cart`

Promotion Code Service
`/store/{storeId}/cart/@self/assigned_promotion_code`

Deep dive: Checkout & Orders

- Components
- Order overview with ID
- Open orders + history

IBM WebSphere Commerce REST API

Cart Service
/store/{storeId}/cart
/store/{storeId}/cart/@self/precheckout
/store/{storeId}/cart/@self/checkout

Shipping Info Service /store/{storeId}/cart/@self/shipping_info

Payment Instructions Service
/store/{storeId}/cart/@self/payment_instruction

Person Contact Service
/store/{storeId}/person/@self/contact

Order Service
/store/{storeId}/order/@history
/store/{storeId}/order/{orderId}

OPEN ORDERS

(Alison Parker) My Cart Messages My Account Sign Out Search

geomatrix OUTDOORS

MEN'S WOMEN'S EQUIPMENT SEASONAL ACTIVITIES COMMUNITIES SUPPORT BRAND

My Account Open Orders

Open Orders

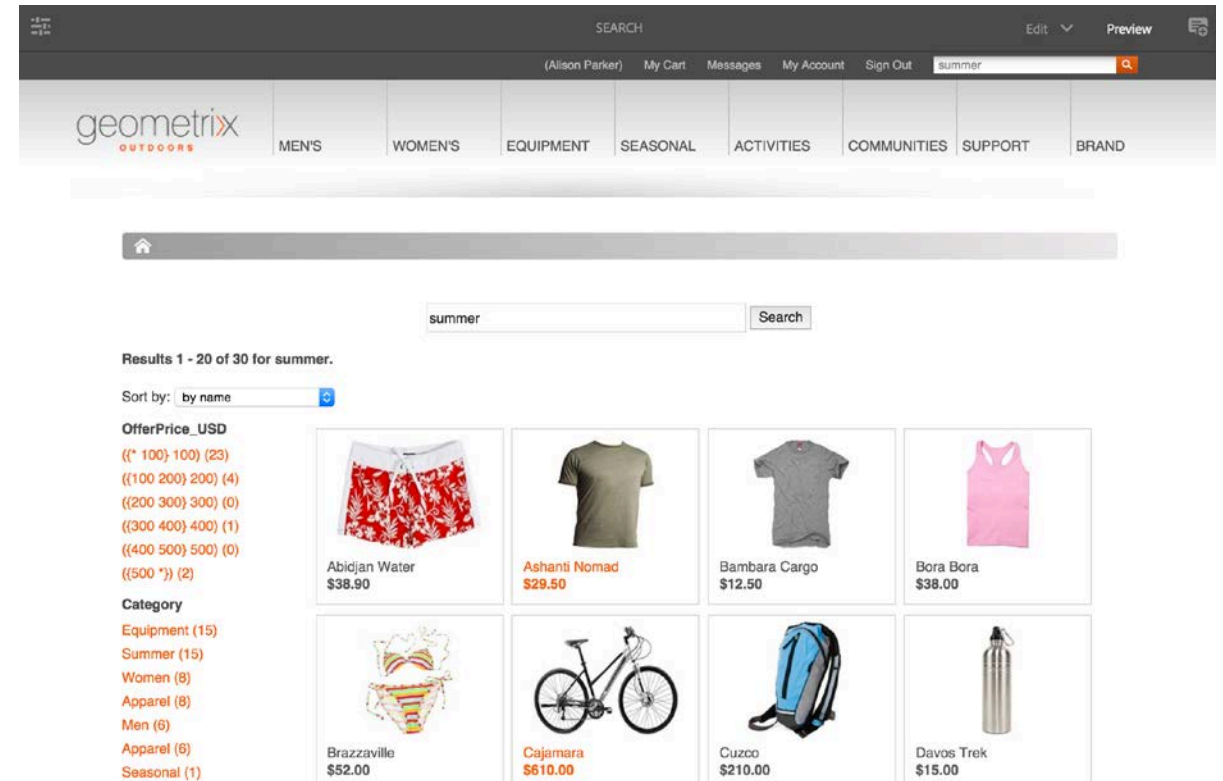
Date	Summary	Price	Status
09 Sep, 2015	1 items (Ashanti Nomad)	\$39.70	M
22 Jul, 2015	2 items (Ashanti Nomad, Ashanti Nomad)	\$116.83	M

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Deep dive: Search

- WebSphere Commerce keyword search + faceted navigation



IBM WebSphere Commerce REST API

Search Product Service
/store/{storeId}/productview/byCategory
/store/{storeId}/productview/bySearchTerm

Deep dive: Customization and Extension Points

- Source code of the IBM WebSphere Commerce integration is provided as part of the packages
- APIs
 - AEM Commerce Integration Framework APIs can be extended
 - DefaultWCCommerceService, DefaultWCCommerceSession, DefaultWCImporter, DefaultWCImportHandler and many others can be extended, for example see `info.geometrixx.commerce.impl.GeoWCCommerceService`
 - IBM WebSphere Commerce integration specific APIs
 - `com/adobe/cq/commerce/websphere/api` > common APIs of the integration
 - `com/adobe/cq/commerce/websphere/connection/api` > WebSphere Commerce REST client and command framework
- Customization of OSGI service configuration
 - For example REST API client or product & product variant data parser
- Customization of UI components

Release Notes and Roadmap

Catalog management	Product importer configuration
	Full import
Shopping cart	Add / Remove item
	Guest + Registered Customers
	Show shopping cart
Promotions & Promotion Codes	Redeem + remove promotion code
	Commerce system driven promotion
Checkout	AEM components provided
	Order overview with ID
	Open orders + history
Search	WebSphere Commerce keyword search + faceted navigation
User Mgmt	Basic authentication
Demo-store	Geometrixx

Catalog management	Express update
	Incremental import
	Import Sales Catalogs as Blueprints
	Scalability / Performance tests
Search	Search driven navigation
Voucher & Promotions	Potential promotion
	AEM driven promotion
Checkout	Address-book support
	Support payment API + components
	Support shipping API + components
Demo-Store	Aurora

May 2015 Release

Future Release (TBD)

Packages

- [cq-websphere-commerce-1.0.0-NPR-6709](#)
- [cq-geometrixx-websphere-content-1.0.0-NPR-6709](#)

Documentation

- Developing: <http://docs.adobe.com/docs/en/aem/6-1/develop/ecommerce.html>
- Administering: <http://docs.adobe.com/docs/en/aem/6-1/administer/ecommerce/ibm-websphere.html>
- Deploying: <http://docs.adobe.com/docs/en/aem/6-1/deploy/ecommerce/ibm-websphere.html>
- Geometrixx Outdoors data loading: <http://docs.adobe.com/docs/en/aem/6-1/deploy/ecommerce/ibm-websphere/setup.html>

Video Overview

- <http://bit.ly/1L2sq0E>

Questions?



Adobe