

The unified content and commerce playbook

A practitioner's guide to enterprise implementation

Adobe

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Introduction

Why this playbook exists

In the modern digital economy, the customer journey is expected to be seamless. A potential buyer might discover a product through compelling content on a corporate website, but the moment they decide to purchase, they are often thrust into a disjointed experience of a different user interface, a separate login, and a loss of context that erodes trust and leads to abandoned carts. This challenge is not unique to any single industry; it is a pervasive issue for B2B and B2C organizations alike, from manufacturers with global distribution networks to enterprises with complex partner ecosystems.

This playbook addresses the common pain points that arise from a disconnected content and commerce strategy. It provides a strategic framework and a set of battle tested patterns for integrating a content management system (CMS) with a commerce engine to deliver a unified, end-to-end customer experience. The goal is to move beyond theoretical frameworks and offer practical guidance from real-world implementations.

Who this playbook is for

This is intended for a diverse audience involved in the strategy, design, and implementation of enterprise level content and commerce solutions. This includes;

- **Business Executives and Product Managers** will find the necessary context to understand the business case, strategic options, and overall vision.
- **Technical Managers** will gain insights into the delivery, governance, and operational stability of the platform.
- **Solution Architects and Technical Leads**, this playbook provides the architectural patterns and decision-making frameworks required to design a robust, end-to-end solution.
- And the **Development Community** will find practical guidance on implementing, extending, and maintaining the platform.

What you will learn

Its comprehensive guide to designing, implementing, and governing a unified content and commerce platform. You will learn about through the entire lifecycle of a content and commerce integration project;

- It begins with **The Strategic Foundation**, which outlines the business case for integration and the core architectural principles of modern digital experience platforms.
- From there, it moves to **The Enterprise Blueprint**, which provides a layered reference architecture that can be adapted to your organization's technology landscape.

Introduction

- The playbook then dives into **Core Implementation Patterns**, offering practical guidance on integration, identity management, asset synchronization, and unified search.
- To help you put these concepts into practice, the **Making It Real** section provides a phased implementation roadmap, a governance framework, and a summary of common pitfalls to avoid.
- Finally, the playbook concludes with a collection of **Tools and Resources**, including checklists, reference guides, and a glossary of terms to support your implementation journey.

Scope & Intent

This playbook is designed to be a strategic head start, not a comprehensive end-to-end implementation guide. It focuses on the key architectural decisions, integration patterns, and foundational principles that are most critical to success. While it does not cover every aspect of a content and commerce implementation, the approaches and thinking presented here should be applied consistently across all areas of the platform.

Chapter 1: The strategic foundation

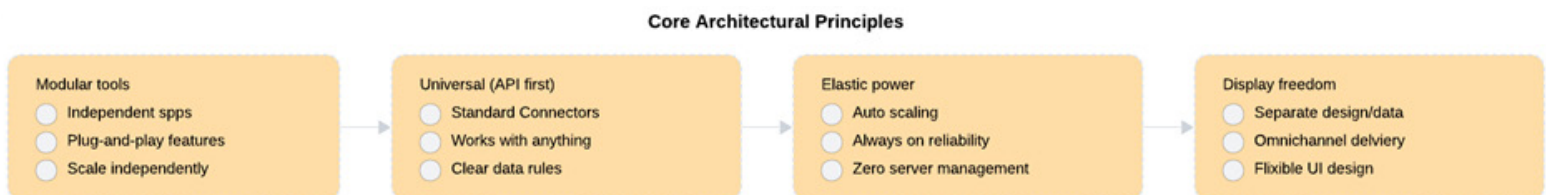
The business case for integration

The fundamental goal of integrating content and commerce is to eliminate the friction that customers experience when moving from browsing marketing contents to buy. In a disconnected ecosystem, every system boundary is a potential point of failure, leading to a fragmented customer journey and a host of business challenges. A unified platform, on the other hand, creates a seamless experience that drives conversions and builds brand loyalty.

Business challenge	Negative impact	Integrated solution
Fragmented experience	High cart abandonment rates and customer frustration.	A single, seamless journey from content discovery to checkout.
Content & commerce mismatch	Inconsistent branding and messaging across touchpoints.	A unified authoring experience for marketing and product content.
Manual data & synchronization	Errors, delays, and high maintenance costs.	Automated, real-time data flow between systems.
Siloed customer data	Poor personalization and a lack of a holistic customer view.	A unified customer profile that enables personalized experiences.
Multiple vendor support	Finger-pointing and slow resolution times for issues.	An integrated platform with a clear ownership and support model.

Core architectural principles

Modern digital experience platforms are built on a set of core architectural principles that enable agility, scalability, and flexibility. These principles, often referred to as **composable commerce** provide the foundation for a future-proof technology stack.



- A **modular design** is at the heart of a composable architecture. The platform is built from independent, interchangeable components can be developed, deployed, and scaled independently, allowing for a "best-of-breed" approach where you can select the optimal solution for each specific capability, such as search, payments, or content management.

Chapter 1: The strategic foundation

- **API-first communication** is another critical principle. All communication between components is handled through well-defined APIs, which act as a clear contract between services. This allows for the seamless integration of new capabilities without disrupting the entire system.
- **A headless architecture** decouples the frontend presentation layer (the "head") from the backend business logic. This separation provides greater flexibility in creating customized user experiences for various channels, such as web, mobile, and in-store displays, without being constrained by the backend systems.
- A **cloud-native** approach ensures that the platform is built to leverage the scalability, resilience, and flexibility of the cloud. This includes the use of containerization, serverless computing, and other cloud-native technologies to create a highly available and performant platform.

Chapter 2: The enterprise blueprint

A content and commerce platform does not exist in a vacuum. It is part of a larger enterprise ecosystem that includes a variety of systems, from enterprise resource planning (ERP) and product information management (PIM) to customer relationship management (CRM) and data analytics platforms. A successful implementation requires a clear understanding of this landscape and a well-defined reference architecture.

The four-layer reference architecture

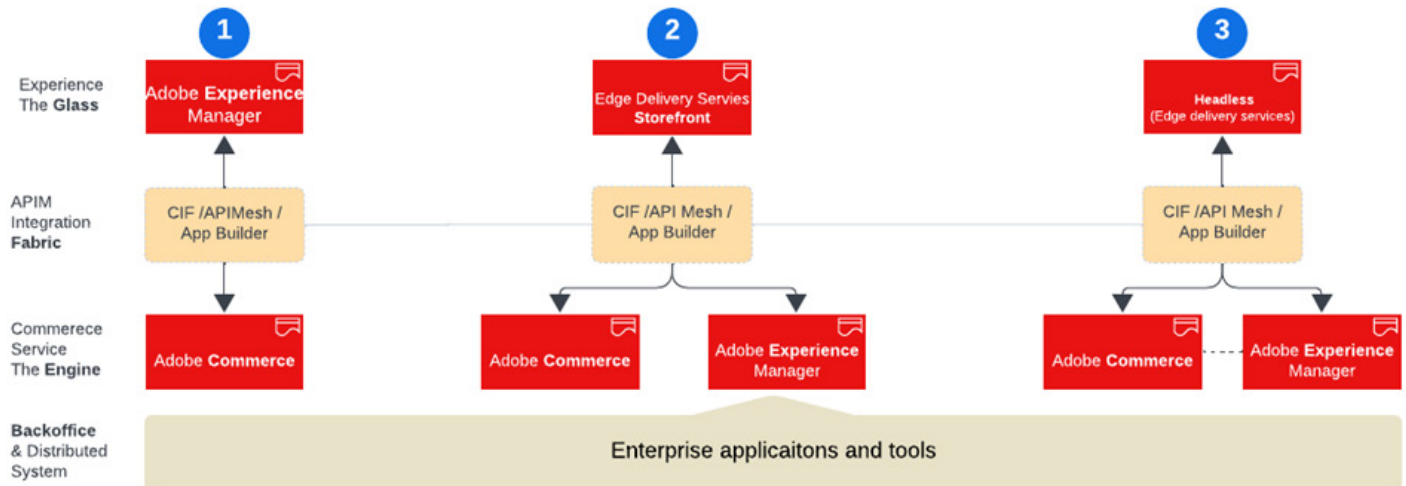
An enterprise content and commerce architecture can be organized into five distinct layers, each with a specific purpose and set of technologies.

Layer	Purpose	Key Technologies	Role
Experience	The "glass" that the user interacts with.	CMS, CDN, Dynamic Media	Rendering, caching, and delivery of the user experience.
Commerce services	The transactional engine.	Commerce Platform, Payment Gateway, Tax Service	Cart, checkout, order management, and pricing.
Integration fabric	The connectors and orchestration layer.	API Gateway, Message Broker, Middleware	APIs, events, and data transformation between systems.
Enterprise & backend systems	The systems of record for the enterprise and the sources of truth.	PIM, DAM, Data Platforms, ERP, CRM, Dealer Systems ...	Product data, digital assets, and master data management and inventory, finance, customer data, and other core business functions.

Architectural options

There are three primary architectural patterns for integrating content and commerce. The choice of pattern depends on the organization's strategic priorities, existing technology investments, and desired level of flexibility. There's no single "right" way to integrate content and commerce. The choice and integration depends on the organization's strengths, existing investments, and strategic priorities.

Chapter 2: The enterprise blueprint



1. Content-Led (CMS as the "Glass")

In this model, the CMS serves as the primary presentation layer, and the commerce platform provides the backend transactional services. This is the focus of this playbook and is ideal for organizations that prioritize a rich, content-driven experience and want to empower marketers to create shoppable content.

2. Commerce-Led (Commerce as the "Glass") powered by Edge Delivery Services

In this model, the commerce platform serves as the storefront powered by the Edge Delivery Services, and the CMS provides structured content that is consumed by the commerce platform. This pattern is suitable for organizations with a strong focus on commerce and simpler content needs.

3. Headless (API-Driven)

In this model, both the CMS and the commerce platform operate headlessly, exposing their capabilities through APIs. A custom frontend application consumes these APIs to create a fully customized user experience. This pattern offers the greatest flexibility but also requires the most development effort and increases the complexity.

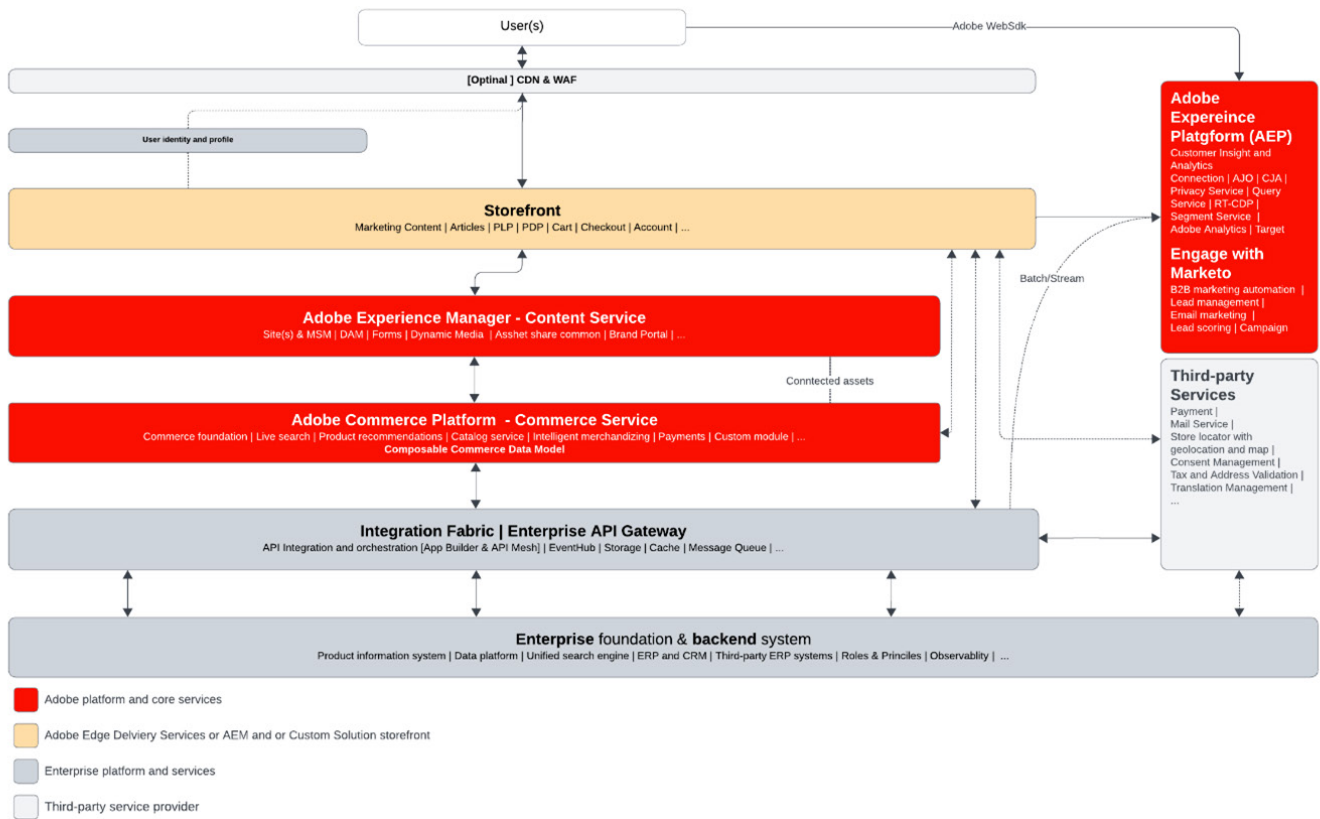
Playbook's focus

The remainder of this playbook focuses on Option 1 with Composable Commerce. This pattern offers balance of authoring experience, content flexibility, and commerce capability for enterprise implementations. The architectural principles, however, apply broadly for other available options is enough flexibility to enable true Omnichannel content and commerce delivery.

Chapter 3: Core implementation patterns

This chapter provides practical guidance on the key implementation patterns that are essential for building a robust and scalable content and commerce platform. These patterns cover the integration fabric, security and identity, asset synchronization, and unified search.

Note: The patterns presented in this chapter are representative examples of the most common and impactful implementation challenges. The same architectural principles and design approaches should be applied to other areas of the platform, including but not limited to personalization, analytics, forms, payment processing, tax calculation, and order management.



Note: the Adobe Commerce Cloud as a Service detailed diagram available [here](#).

The integration fabric: Connecting the ecosystem

The integration layer is the nervous system of the enterprise architecture. It is responsible for orchestrating the flow of data and events between all the different systems in the ecosystem. A well-designed integration fabric provides decoupling, resilience, and observability, ensuring that the platform is both scalable and maintainable.

Integration patterns

There are four primary integration patterns that are used in a content and commerce architecture. The choice of pattern depends on the specific use case and the requirements for data consistency and latency.

Pattern	Use cases	Characteristics
Synchronous Request/Response	Real-time data lookups, such as price checks and inventory lookups.	The user is waiting for a response, so the integration must be fast and have a fallback strategy.
Asynchronous Event-Driven	Fire-and-forget notifications, such as order confirmations and asset approvals.	The systems are decoupled, and the integration is eventually consistent.
Batch Scheduled	Large-volume data synchronization, such as nightly catalog updates and price updates.	The integration is processed off-peak and can handle large volumes of data.
Streaming Real-time Feed	Continuous data feeds, such as inventory changes and clickstream data.	The integration provides a continuous flow of data with low latency.

Resilience and observability

Integration failures are inevitable. A resilient architecture is designed to handle these failures gracefully, without impacting the user experience. This includes implementing patterns such as circuit breakers, retries with backoff, and fallbacks. Observability is also critical for monitoring the health of the integration layer and for quickly diagnosing and resolving issues. This includes structured logging, metrics, tracing, and alerting.

Security & identity: A unified experience

A seamless customer journey requires a unified identity management strategy. Users should not be aware that they are moving between different systems. A single sign-on (SSO) solution is essential for providing a frictionless authentication experience, while a centralized identity provider (IdP) ensures that user data is managed securely and consistently across the entire ecosystem.

Identity architecture

A typical identity architecture includes several key components.

- An **external identity provider (IdP)** serves as a central identity store for all user types, including customers, employees, and partners.
- A **customer identity and access management (CIAM)** solution provides specialized functionality for managing customer identities, such as self-registration, password reset, and multi-factor authentication (MFA).

Chapter 3: Core implementation patterns

- **Token-based authentication**, using technologies like JSON Web Tokens (JWTs), is employed to securely pass user identity and permissions between systems. Finally,
- **Role-based access control (RBAC)** is used to manage user permissions based on their role, ensuring that users only have access to the data and functionality that they need.

User type	Authentication method	Key capabilities	Considerations
Guest	Anonymous	Browse, search, and view products.	The goal is to convert the guest to a known customer.
B2C customer	Email/password, social login	Cart, checkout, order history, and account management.	Balance a frictionless experience with strong security.
B2B buyer	Enterprise SSO	Company accounts, punchout, quotes, and approval workflows.	Role hierarchy, budgets, and other B2B-specific requirements.
Partner/Dealer	Federated SSO	Access to partner-specific pricing, inventory, and customer data.	Data isolation and security are critical.
Platform administrator	Corporate IdP	Full administrative access to the platform.	Strong authentication, MFA, and audit logging are required.

Asset synchronization: The single source of truth

Digital Asset Management (DAM) is the cornerstone of a consistent brand experience. The DAM serves as the single source of truth for all brand-approved, rights-managed, and properly tagged assets. However, these assets need to be accessible to multiple systems across the enterprise, including the commerce platform, PIM, and search engine. A clear asset synchronization strategy is essential for avoiding the common pitfalls of manual uploads, stale images, and broken metadata.

The role of “Metadata and Tags”

Metadata and tags are the intelligence layer of the asset ecosystem. They provide the context that enables automation and ensures that assets are used correctly. A well-defined tagging strategy is critical for enabling the following capabilities;

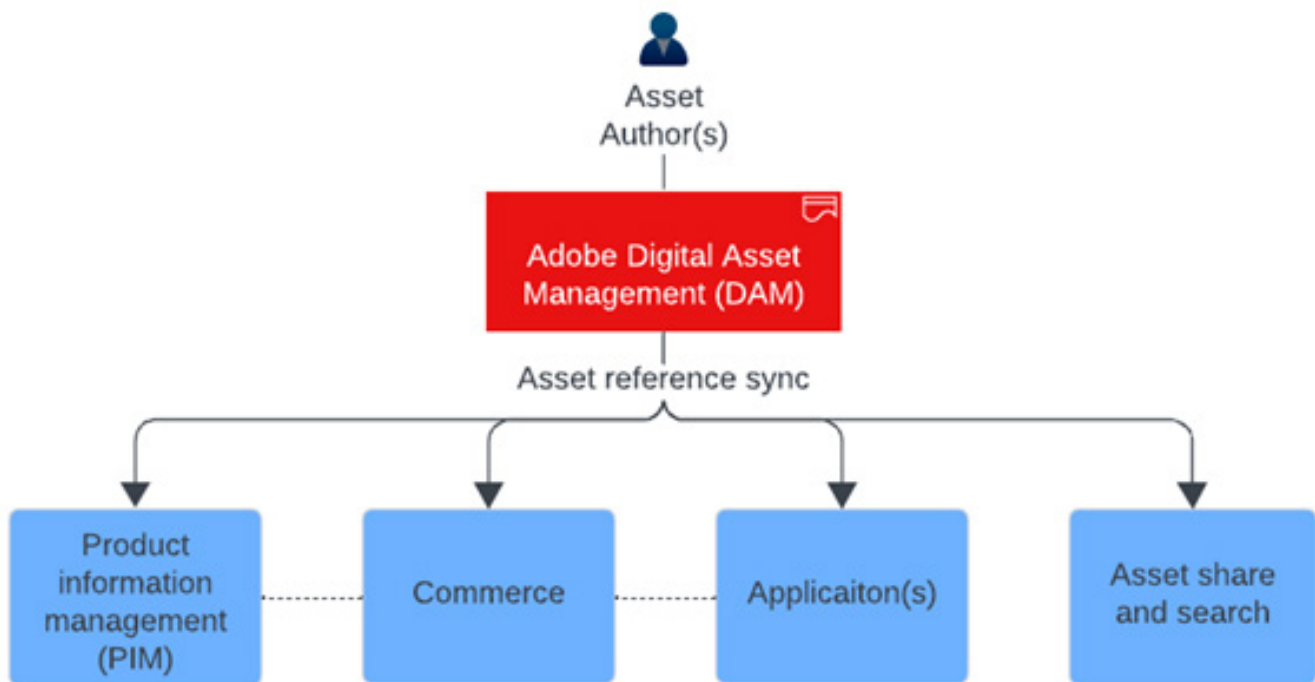
- **Product association** tags automatically link assets to the correct products in the commerce platform and PIM.

Chapter 3: Core implementation patterns

- **Asset type** tags help to distinguish between different types of assets, such as hero images, thumbnails, and technical drawings.
- **Channel/usage** tags ensure that the correct rendition of an asset is served for the specific channel, such as web, print, or social media.
- **Rights/compliance** tags enable the automated enforcement of license expirations and usage rights.

Asset synchronization paths

Here are few primary paths for asset synchronization. The choice of path depends on the organization's system landscape and data flow requirements.



Path	Description	When to use
DAM → PIM	Assets flow from the DAM to the PIM, where they are associated with product records. The PIM then syncs the enriched product data to the commerce platform.	When the PIM is the central hub for product data and needs to be enriched with visual assets.
DAM → Commerce (Direct)	Assets sync directly from the DAM to the commerce platform.	When the commerce platform is the primary product system, or when there is no PIM.
DAM → Asset share and search	Asset sharing and the asset metadata & thumbnails are indexed directly into the enterprise search platform.	Sharing assets with the partners and users and the power unified search experiences that include both content and products.

Note: best practice to avoid duplicating binary files. Instead, sync the asset reference (URL) and let the DAM and its associated Content Delivery Network (CDN) serve the optimized renditions directly to the end-user with a dynamic media. This ensures that there is a single source of truth for the asset and that all systems are using the most up-to-date version.

Unified Search: A single pane of glass

Customers expect to find what they are looking for with a single search, regardless of whether it is a product, a support article, or a technical specification. A unified search experience brings together content and products from across the enterprise into a single, cohesive search experience. This requires a dedicated and or aggregated search platform that can index content from multiple sources and provide a relevant, personalized, and secure search experience.

Unified search architecture

A unified search architecture consists of the following components:

- **Search platform**

A dedicated search engine, such as Elasticsearch, OpenSearch, or a cloud-based search service, that can index and search across multiple content sources.

- **Content connectors**

Connectors that can extract content from the various source systems, including the CMS, commerce platform, PIM, and DAM.

Chapter 3: Core implementation patterns

- **Unified index**

A single search index that contains all the content from the various source systems, with a common schema that enables cross-system search.

- **Search API**

An API that provides a single point of access for all search queries, with support for features such as faceting, filtering, and personalization.

Content type	Source system	Index strategy	Update frequency
Products	Commerce Platform	Full product feed with real-time updates.	Real-time or near real-time.
Content pages	CMS	Crawler or content API.	On-publish.
Documents and assets	DAM	Metadata and full-text extraction.	On-approval.
Support Articles	Knowledge base	API feed.	On-publish.

Chapter 4: Making it real

This chapter provides a practical roadmap for implementing a unified content and commerce platform, from the initial pilot to a global rollout. It also includes a governance framework for ensuring the long-term success of the platform and a summary of common pitfalls to avoid.

The implementation roadmap: A phased approach

An enterprise-level implementation should be approached as a series of waves, starting with a foundational pilot and then expanding to additional markets and capabilities. This phased approach allows for a more manageable rollout, reduces risk, and enables the team to learn and adapt as they go.

Wave 1: foundation

Focuses on establishing the core infrastructure, including the CMS, commerce platform, and integration fabric. This wave also includes configuring the basic integration between the systems and setting up the SSO and identity framework.

Wave 2: pilot market

The platform is launched in a single region or market with MVP functionality. This includes the complete checkout flow, integration with backend systems, and the establishment of content governance and authoring workflows.

Wave 3: expansion

Involves rolling out the platform to additional markets, leveraging a multi-site management strategy to reuse templates and components and configuring localization for language, currency, and tax rules.

Wave 4: optimization and scale

Stream of real time user data and feedback from users are direct input to the ongoing process of continuously improving the platform by enabling advanced capabilities such as personalization, unified search, and advanced analytics, as well as ongoing performance tuning and optimization based on user feedback.

Governance: keeping it running

Implementation is just the beginning. A clear governance framework is essential for ensuring the long-term success of the platform. This includes defining roles and responsibilities, establishing change management processes, and monitoring the health of the platform.

Domain	Governance Needs	Who Owns It
Content	Authoring standards, approval workflows, and content lifecycle management.	Content Operations / Marketing
Commerce	Product data quality, pricing rules, and promotion management.	E-Commerce / Merchandising
Assets	Naming conventions, tagging taxonomy, and rights management.	DAM Administrator / Brand
Integration	API versioning, SLAs, and incident response.	Platform Engineering
Security	Access reviews, compliance audits, and vulnerability management.	Security / IT

Pitfalls and anti-patterns: lessons learned

Every implementation provides valuable lessons. Here are some of the most common pitfalls;

#1. "big bang" launch

Where an attempt is made to go live with all markets, features, and integrations at once. This approach is a recipe for disaster and should be avoided in favor of a phased rollout that starts small, proves the architecture, and then scales.

#2. "duplicating" data

Duplicating data between systems, which creates stale data, synchronization nightmares, and conflicting sources of truth. Instead, use real-time integrations and establish a single source of truth for each data element.

#3. "over customizing" core components

Over customizing core components by building entirely custom components instead of extending the platform's core components is another anti-pattern that increases the efforts, breaks the upgrade path and increases the maintenance burden.

#4. "avoid ignoring the integration" layer

Treating integration as an afterthought leads to brittle connections, cascading failures, and a lack of observability. Integration should be part of the center piece of overall architecture.

Chapter 4: Making it real

#5. "security as an afterthought" framework

The security as an afterthought to invite the rework, security gaps, and delayed launches. Security and identity should be foundational components including SSO & SLO of the architecture from the very beginning. Chapter 5: Tools & Resources

#6. "expecting COSTS" do everything

Assuming Commercial Off-The-Shelf (COTS) platforms will meet 100% of business requirements out-of-the-box, for example Dropins component, or CIF core components. Every industry and organization is unique hence one size does not fit all. The frustration when platform gaps are discovered late, scope creep, or worse, forcing business processes to fit the tool. The recommendation to accept that customization is unavoidable when serving mass and global audiences and plan for it & budget for it. The goal isn't zero customization, it's smart customization that extends the platform without breaking upgrade paths.

***Note:** While Adobe Commerce as a Cloud Service (ACCS) combined with Edge Delivery Services is the recommended modern standard for performance, even these optimized patterns require architectural planning for custom business logic*

Chapter 5: Tools & resources

This chapter provides a collection of practical tools and resources to support your implementation journey, including a readiness assessment checklist, a technology reference guide, and a glossary of key terms.

Readiness assessment checklist

Before beginning your implementation, it is essential to assess your organization's readiness across several critical dimensions. This checklist provides a starting point for this assessment and should be customized to your specific project requirements.

Technical readiness

The technical readiness assessment ensures that all the necessary infrastructure and systems are in place. This includes a provisioned and configured CMS environment, an available commerce platform instance, documented API access to backend systems such as ERP and inventory, confirmed PIM export capabilities, a selected and accessible identity provider (IdP), and a selected and configured integration platform.

Organizational readiness

Organizational readiness focuses on the people and processes required for a successful implementation. This includes an identified and engaged executive sponsor, an assembled cross-functional team with representatives from content, commerce, and IT, a defined governance model with clear roles and responsibilities, identified content authors who are available for training, and an established communication plan for partners and dealers.

Content & data readiness

Information architecture (IA) - content and data readiness ensures that all the necessary content and data are in place and properly structured. This includes a defined product catalog structure, a documented taxonomy and tagging strategy, an agreed-upon asset metadata schema, a content migration plan (if applicable), and defined URL strategy and redirect requirements.

Building unified content and commerce experience is a transformative initiative that, when executed correctly, can deliver significant business value. It is also a complex undertaking that requires careful planning, a clear architectural vision, and a commitment to best practices. The patterns and principles outlined in this playbook are derived from real-world implementations and are intended to provide a practical guide for navigating the challenges of this journey.

Conclusion

- It is critical to embrace a composable architecture that is modular, API-first, and headless. This approach provides the flexibility and scalability needed to adapt to future changes—whether that's new channels, new markets, or new business models.
- The integration fabric is the backbone of the platform. It requires dedicated focus on resilience (circuit breakers, retries, fallbacks) and observability (logging, tracing, alerting). Treat it as a first-class architectural concern, not an afterthought.
- A unified identity management strategy is essential for providing a seamless and secure customer experience. This should be prioritized from the beginning—retrofitting SSO and security controls later causes rework, delays, and security gaps.
- The implementation should be approached in phases, starting with a pilot to prove the architecture before scaling to additional markets and capabilities. Resist the temptation to launch everything at once.
- Every new initiative follows a learning curve. It is critical for the business to allow sufficient time for teams to learn, iterate, and mature the platform. Rushing to achieve the vision without this foundation leads to technical debt and fragile solutions.
- Finally, a clear governance framework is essential for ensuring the long-term success and maintainability of the platform. Without governance, even the best architected solution will drift into chaos.

Why Adobe platform

The architectural vision and implementation patterns described in this playbook are well-supported by the Adobe Experience Platform ecosystem.

- **Adobe Experience Manager as a Cloud Service (AEMaaS)** provides a robust, cloud-native content management foundation with built-in scalability, security, and continuous delivery of new features. Its Multi-Site Manager (MSM) and blueprint architecture enable rapid regional expansion—launching new markets in weeks rather than months.
- **Adobe Commerce with tradition approach** offers a flexible, API-first commerce engine that aligns with composable commerce principles. Its headless architecture with a CIF framework and extensibility model support the design assertions outlined in this playbook.
- **Adobe Commerce as a Cloud Service offers composable** services with a storefront framework powered by Edge Delivery Services. This enables customers to leverage Dropin components for a high-performance, ready-to-launch experience while significantly accelerating time-to-market.
- For integration, **Adobe Developer App Builder, Adobe I/O Events, and API Mesh** provide a serverless, event-driven foundation for building enterprise-grade integrations that are secure, scalable, and observable out of the box.
- **AEM Forms** provides enterprise grade form capabilities for lead collection and contact requests. Forms integrate with CRM systems and marketing automation platforms, enabling end-to-end customer engagement workflows with the AEP.
- Adobe Commerce Services with AI powered merchandising services to improve conversion. Experiment natively, directly in the storefront. Manage the storefront experience to create rich experiences in minutes with simple document-based authoring or a visual editor.
- **Adobe's AI capabilities - powered by Adobe AI (formerly Sensei) and Firefly** are natively embedded across the ecosystem. This enables intelligent merchandising, Live Search, and Product Discovery to boost conversion through real-time content recommendations and automated personalization. By integrating Generative AI for content creation and predictive analytics, Adobe Commerce helps organizations accelerate time-to-value and deliver highly relevant, personalized experiences at scale.
- Together, **these platforms provide out-of-the-box capabilities** for many of the patterns discussed including headless content delivery, dynamic media management, and extensible commerce services. The cloud-native nature of these platforms reduces infrastructure overhead and allows teams to focus on delivering business value rather than managing infrastructure.

The broader **Adobe Experience Cloud ecosystem** spanning Real-Time CDP, Adobe Target, Adobe Analytics, and Journey Optimizer extends this foundation with unified customer profiles, personalization, analytics, and journey orchestration. For organizations looking to implement the vision outlined in this playbook, the Adobe ecosystem provides a strong foundation that can be extended and customized to meet specific business requirements.

Why Adobe platform

This playbook is a living document. The world of digital commerce is constantly evolving, and the best practices of today will undoubtedly be refined and improved upon in the future. We encourage you to share your own learnings and experiences with the broader community to help us all build better, more seamless customer experiences.

Technology reference guide

Use this guide for a quick look at the core technologies mentioned throughout the playbook. While these are the primary drivers of our strategy, this reference should be viewed as a starting point, not a complete inventory.

Core platforms

Technology	Purpose
Content management system (CMS)	Content authoring, management, and delivery.
Commerce platform	E-commerce engine, catalog management, and checkout.
Product information management (PIM)	Centralized management of product data.
Digital asset management (DAM)	Storage, organization, and delivery of digital assets.

Integration & infrastructure

Technology	Purpose
API gateway	Security, throttling, and governance for APIs.
Message broker	Asynchronous communication and event-driven integration.
Content delivery network (CDN)	Caching, performance, and security at the edge.
Identity provider (IdP)	Centralized identity and access management.

Glossary of terms

Term	Definition
API (application programming interface)	A set of rules and protocols that allow different software applications to communicate with each other.
Composable commerce	An architectural approach that uses best-of-breed components connected via APIs to create a flexible and scalable e-commerce solution.
Headless architecture	An architecture where the backend (business logic) is decoupled from the frontend (presentation layer).
Composable architecture	A set of architectural principles for building modern digital experience platforms: Microservices, API-first, Cloud-native, and Headless.
Microservices	A software development technique that structures an application as a collection of loosely coupled, independently deployable services.
Packaged business capabilities (PBCs)	Modular, functionally complete software components that represent a specific business capability.
Single sign-on (SSO)	An authentication mechanism that allows a user to log in with a single set of credentials to multiple, independent software systems.

References

1. [Adobe Commerce as a Cloud Service overview](#)
2. [An Introduction to Adobe Experience Manager as a Cloud Service](#)
3. [AI, Engage every customer like they're your only customer](#)
4. [Empowering your team with a strong content governance strategy for implementation success](#)
5. [Best practices and tips for getting started with AEM Assets](#)

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