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What to consider when migrating to a headless ecommerce platform

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consuming, and as a result of these factors, the question of whether it's all worth it, creeps in. There are also many factors to think about when looking for a new solution - do you move to a headless commerce platform, or to an out-of-the-box solution? Or do you stick with the platform you've got and attempt an upgrade instead? What data should you move? Should you change your hosting provider? Should

Even though you are well aware of the pitfalls of your current ecommerce

thought of replatforming can be a scary one. It can be costly and time-

platform - be it rigidity, technical debt or the inability to innovate quickly; the

Monolithic, legacy platforms versus modular, flexible commerce If you're looking to migrate to a headless commerce platform from a traditional, all-in-one system (aka monolith), you're already well acquainted with the pain points of this rigid architecture, the time it takes to make changes, the risk

introduced with modifying or extending code and the costs associated with keeping your technology current. And not to mention how difficult it is to get

To execute commerce and innovation with more agility, migrating away from your legacy platform to embrace headless commerce and microservices makes sense. But with so many headless options on the market, how do you choose the digital commerce solution that's right for your organization? Picking the right headless commerce platform

commerce services out of the monolith and in to new, exciting touchpoints.

Choosing the right headless commerce or microservices platform is important as not all ecommerce APIs are created equal. Not all ecommerce APIs truly support omnichannel customer journeys and new business models.

• Extensibility and backwards compatibility. Backwards compatibility means every update you make to a new touchpoint updates across touchpoints, rather than requiring developers to update each. and. every. device and

and back-and-forth through documentation -- especially when your headless commerce environment connects to multiple systems, microservices and applications with their own APIs. • Full API exposure. Ideally, 100% (or close to) of your commerce functionality can be exposed via APIs to extend to any touchpoint or be re-composed for new applications.

Should you consider a microservices commerce platform? There's headless commerce, and then there's headless commerce.

While headless architecture 1.0 decouples the front end from the back end

commerce platform, microservices architecture decouples back end services into

smaller "building blocks," each with their own well-defined APIs and data stores.

This means you can leverage the benefits of headless commerce -- on steroids.

scaled and updated without impacting monolithic code. This enables rapid agility and flexibility within your organization.

solution by selecting the best components to address their unique business needs on a microservices-based headless commerce platform.

the data you need to migrate will have to play nice with the new solution. And

The platform you are currently on will also play a vital role in your decision, as all

Elastic Path Commerce Cloud allows organizations to create a best-of-breed

not handled properly. What to consider before migrating to a microservices-based ecommerce platform

Are the platform's microservices too micro?

functionality (such as Catalog, Pricing, Payments, Promotions, Cart and Checkout and Accounts). Are microservice APIs well designed?

The more microservices you have, the more complex their management and

analysts like Gartner recommend a smaller suite of "packaged business

capabilities" (or "larger" microservices) organized around core commerce

maintenance. Rather than a microservice for individual features or capabilities,

When APIs are too granular or fragmented across the platform, implementation, monitoring, maintenance, troubleshooting and upgrades becomes a pain. Timeto-market also suffers when implementations take longer due to complexity, and when documentation lives all over the place. Tip: review documentation during

It's important to not dive in headfirst when picking a new ecommerce solution.

the evaluation process!

Try it out yourself Don't just read up on different ecommerce solutions. Try them out. Make a checklist of what you require from the platform of choice, then get stakeholders in the project to try each one of them. Evaluate features and functionalities, monitor the response times, look at their integrations functionality and ability to

Knowing what you want out of your new platform is crucial for success. This is not

• Do you require flexibility to add additional ecommerce channels further down

Do you have a complex business tech stack with lots of third-party tools and

systems that your solution of choice needs to fit into? Map out your technology stack and architecture

• Do you need personalization and customization?

with each other, how your new ecommerce solution will fit into this, and how easy it is to integrate into your existing architecture. You should even be able to lean

What parts of an ecommerce platform are typically migrated?

As the actual content of your store and your source of income, this is the most important data to migrate over. Make sure that you migrate over to a solution that is able to recreate your catalog structure without too much hassle. Otherwise, this may significantly impact development time. Likewise, make sure your inventory management system works well with the new solution. **Customers and orders**

Reporting, shipping, taxes Whether it's custom-built or outsourced to a third-party, make sure you don't

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you think about redoing your storefront?

Look for:

experience. Many APIs require manual updates to each touchpoint which is inefficient and easily creates opportunities for experiences to break when

• Discoverability. Developers working with the API should be able to use the API

with only its root endpoint. Otherwise, there is far too much painful complexity

things fall through the crack (not to mention slows delivery-to-market)!

• Orchestration and choreography. To ensure execution of your business logic and proper sequencing of API and data calls, your platform should support orchestration and choreography with simplicity.

For those who are after speed, flexibility, and custom data management,

solutions like Elastic Path Commerce Cloud will be more suitable.

Individual pieces of your commerce system can independently be deployed,

so, if your solution is heavily customized, it will be so much more difficult to move to a monolith solution that is not as flexible as headless and can easily break if

Are microservice APIs easy to administer? How user-friendly are the APIs' UIs? When dashboards are incomplete or fragmented (due to fragmentation of the microservices and APIs themselves!) they become a pain to navigate through and administer, working against the speed and agility IT expects from modular platforms.

After all, this decision is one that (should) last you a long time, and no doubt will have some financial burden on your business during the move. You want to make sure you've made the right choice for the long term.

customize data. Before you migrate to a headless or microservices platform Have you defined your project scope?

Before you move, make sure you have your technology stack mapped out. This way you can make sure you know exactly how all of your systems will integrate

just for now, but for the future, too.

Do you want to localize your content?

the line?

and store.

Product catalog

on your solutions implementation teams to ensure what work is required to ensure you get the processes in place to enable the technology architecture you desire. Think of data migration Have a plan for being able to migrate data from your current platform, so that

you are sure you can do it with ease; and with limited impact on your project

informing them about the migration and a need to change their password. **Custom data** If your platform is heavily customized, it's probably best to look for a solution that will easily adapt any data with any data type to its own specific rules. Look for a platform that specializes in custom data, otherwise, you can end up spending a lot of effort and resources on rewriting your custom data schema to match the

forget about the cornerstones of what makes your store tick. There are many

solution is a bit like kicking at an open door. Even if your solution served you well

for years, take a look at what best-of-breed third-party tools have to offer, and

consider plugging a third-party service that will save you a lot of development

great third-party services dedicated to these areas, so creating a custom

time and resources and will be able to grow together with your business.

Some ecommerce platforms don't support all integrations out of the box, so

make sure you've consulted the list of supported tools of your chosen solution.

a monolith that may need a separate extension or a plug-in to support your

integration. If you want to take a deeper dive into headless commerce, check

Typically, it is so much easier to plug an integration into a headless solution than

Migrating customers and orders, especially those still unfulfilled or not processed

mention security. Make sure that your customers' credentials are updated post-

migration by either sending each customer a password reset link or an email

is also crucial for a smooth migration effort. At this point, it is important to

Third-parties' integrations If your solution has some third-party integrations, it should be an easy switch.

chosen platform.

out our Headless Commerce FAQ.

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