

End-to-end Developer Portal Transformation

Migration & Hosting Made Easy!

In their journey towards offering innovative products, our customer wanted to rethink their developer portal strategy. They wanted developers (both internal and external) to collaborate effectively and influence upgrades to their product line. The hinderance, however, was that their developer portal had low adoption rate, lacked lustre, needed upgrade and continuous maintenance. DigitalAPICraft delivered an end-to-end solution to transform the customer's developer portal and offered a cost effective solution for hosting the portal on our Atreus Hosting Platform.

Technologies

- Atreus
- Apigee
- Drupal 8
- AWS
- Okta

About the Customer

Our customer, one of the largest US-based wireless network operators, offers wireless voice and data services across USA, Puerto Rico and U.S. Virgin Islands. As leaders in the space, constant innovation across all their products was key. Their developer portal was an innovation platform where their internal and external developers could collaborate, innovate and integrate new ideas.

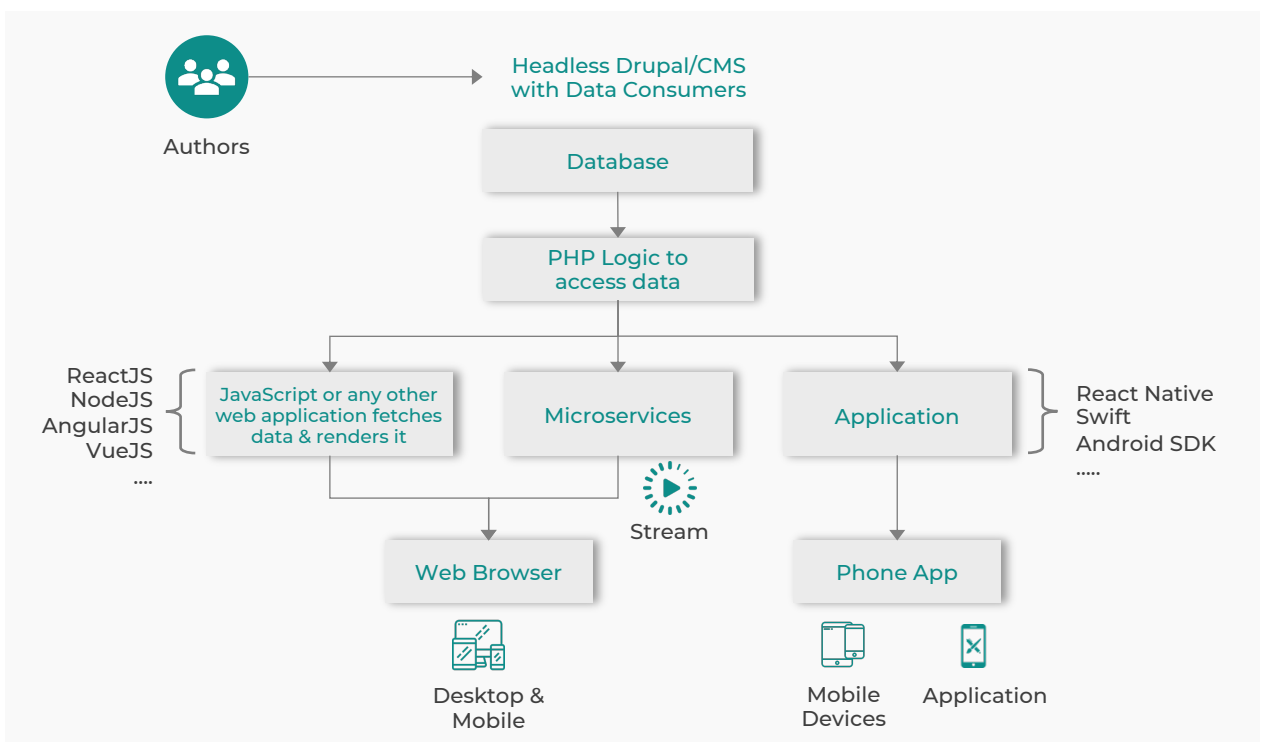
Business Challenges

Despite being the leader in wireless network technology, the adoption rate for their developer portal was on a downslide. Outdated interface, older tech setup, absence of role-based access, etc. were few of the reasons for the lower adoption rate. Another critical hurdle was that their prior setup demanded developers to make copies of the API specifications across two repositories. This was cumbersome and made it tough to proactively adopt the developer portal.

The existing developer portal was on Drupal 7 and the customer wanted to completely transform the developer portal and give it a new look. This transformation exercise not only included development and migration (to Drupal 8) efforts but also needed an effective hosting solution.

Our Solution

DigitalAPICraft (DAC), known for its expertise in migration and hosting solutions, was chosen as the preferred partner. After a comprehensive assessment of the customer's current setup, DAC charted a solution roadmap to build, migrate existing content, and host the new developer portal setup within 6 months. DAC's solution included Okta/SAML integration with OAuth in a Headless Drupal Architecture. The headless architecture included a Drupal backend setup with a React frontend setup.



The migration aspects of the project included user migration, content migration, organic group migration and membership migration. DAC migrated all the functionalities from the older setup to the newer version of the developer portal including all document and SDKs. This was followed by complete end-to-end data migration. The solution included the creation of separate landing pages for authenticated and anonymous users.

With the solution in place, a complex and hierarchical role-based access setup was implemented. Even the Amazon Simple Storage Service (Amazon S3) which was setup for storing large files also included RBAC implementation. The solution also was envisioned to simplify membership management and content management across different groups for privileged users. Solution also included hassle free SSL certificate management. The custom API reference feature was setup which equipped the customer's team to enable or deny access to API reference documents based on roles and requirements.

The entire developer portal setup was hosted on DAC's own hosting platform Atreus. DAC's hosting platform uses Google Cloud Platform and Google Kubernetes Engine. Apart from the hosting platform and related services, DAC also closely supports the customer with version upgrades, enhancement projects and any other portal related maintenance. All this at a fractional cost and effort compared to their previous setup.

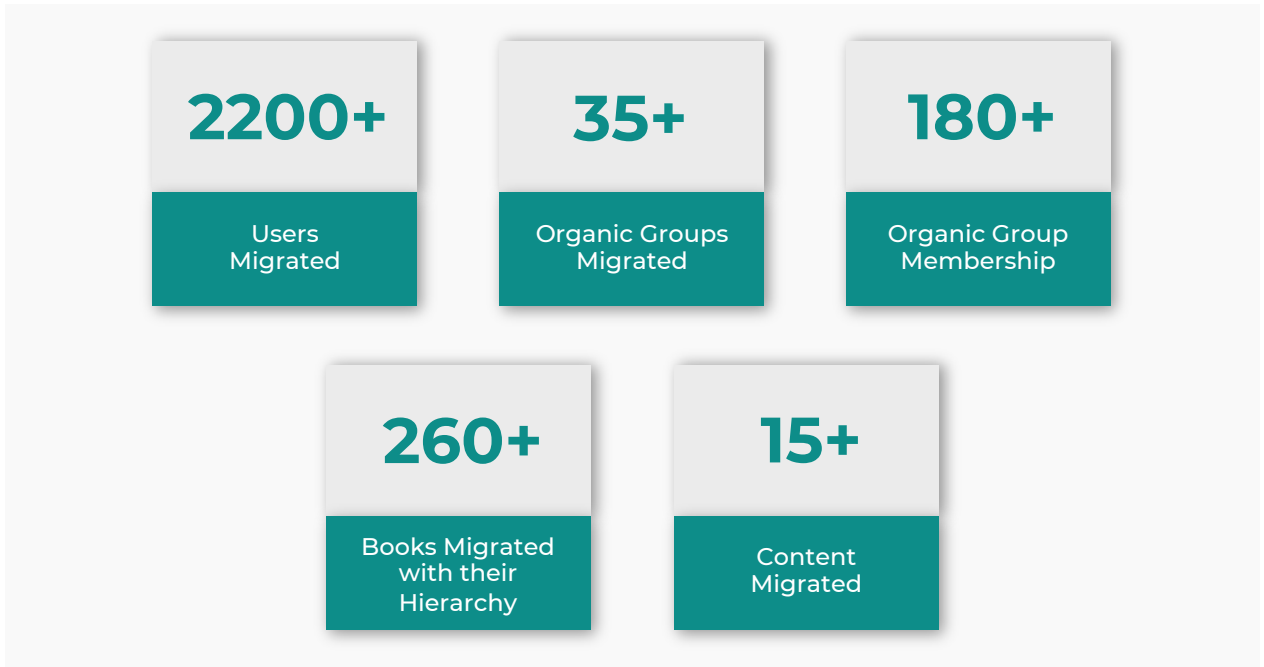
Outcomes & Highlights

A) Drupal 7 to Drupal 8 Migration

The choice of upgrading to Drupal 8 and a headless architecture set the customer up to achieve some outstanding results for now and the future. Below are few of the business outcomes that the customer enjoys:

- ▶ The new developer portal on Drupal 8 has a more modern and sleeker look, with enhanced user experience.
- ▶ The migration to Drupal 8 will act as a base and makes their next upgrade an easy step forward. This also comes with remarkable performance improvement.
- ▶ Developer portal adoption has drastically increased. Developers don't have to make a copy of their APIs in this new and enhanced setup.
- ▶ Granular and role-based control over all the assets in the portal like documents, SDKs, etc. was a massive hit as API producers could now specify who can consume their APIs right down to the individual's email address.
- ▶ As part of the future steps, we are working with the customer to bring in a universal search capability to look for assets matching any parent title or child titles (Domain, Document, SDK, etc.) based on RBAC.
- ▶ A bunch of real time notification features are also being incorporated to keep administrators and user informed of any actions or updates.

Some Migration Statistics



B) Hosting on DAC's Atreus Hosting Platform

The decision to move to the Atreus Hosting Platform was key and some of the customer benefits are listed below:

- ▶ Kubernetes based architecture
- ▶ Autoscaling
- ▶ Load balancing
- ▶ Let's Encrypt SSL certificates
- ▶ High availability (99.99%)
- ▶ No single point of failure - multiple datacentres
- ▶ Logging and monitoring
- ▶ Alerting mechanism
- ▶ 24/7 support
- ▶ CI/CD support

Technology and Tools

- ▶ Atreus
- ▶ Apigee
- ▶ Drupal 8
- ▶ AWS
- ▶ Okta

Interested in talking to our experts?
Drop us a note!

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DigitalAPICraft, through its products and services, helps global brands establish their API Ecosystem and transform into a truly Experience Enterprise. As a leading end-to-end digital transformation partner, our API-led approach enables retail, banking, insurance, telecom, and media companies to offer delightful customer experience, transform business processes and boost operational efficiency.

DigitalAPICraft has been awarded “Delivery Partner of the Year for APAC 2017 – Google Cloud” and is a Premier Google-Apigee partner. Over three consecutive years (2020, 2019 & 2018), DigitalAPICraft is recognized as one of the fastest-growing technology companies by Deloitte in its Technology Fast 50 India and twice (2019 & 2018) in Technology Fast 500 Asia Pacific rankings.

Located in USA, UK and India, and with customers across the globe, DigitalAPICraft brings extensive product and platform experience to help enterprises with digital strategy and consulting, disruption engineering, end-to-end DevOps, experience engineering and much more.

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