TECHNOLOGY CONSULTING & SOFTWARE DEVELOPMENT SERVICES FOR A TELECOM SOLUTIONS PROVIDER

Reduced highly critical data processing time from 6 hours to 60 seconds

Client Background

Our client is a solutions provider to global telecom companies, mobile carriers, broadband, and Wi-Fi Network ISPs. The client's products allow telecom service providers to interact effectively with their subscribers through various promotional campaigns, give exemplary user experience, and increase subscriber retention. The client used a product "Mobile Analytics" that tracked, collated, and processed user activities to serve their carriers better. The product built using legacy technologies, was incapable of handling high traffic, not scalable, thus making the complete process time-consuming and costly.

KEY BENEFITS

- Achieved cost reduction by 82%

- Improved the system's data processing time from 6 hours to 60 seconds

- Attained a highly scalable system with microservices to handle more requests

Key Requirements

- Centralization of data of different subscribers and easy restructure of data making it usable for various campaigns

- A highly scalable solution to handle high subscriber traffic

- A solution to process data in real-time

- A solution that is cost-effective for the business

Xoriant Solution | Key Contributions

Xoriant shares a strong business relationship with the client for over a decade. This testifies the client's trust towards Xoriant's technology prowess, experienced people, and best practices. Our engineering team analyzed
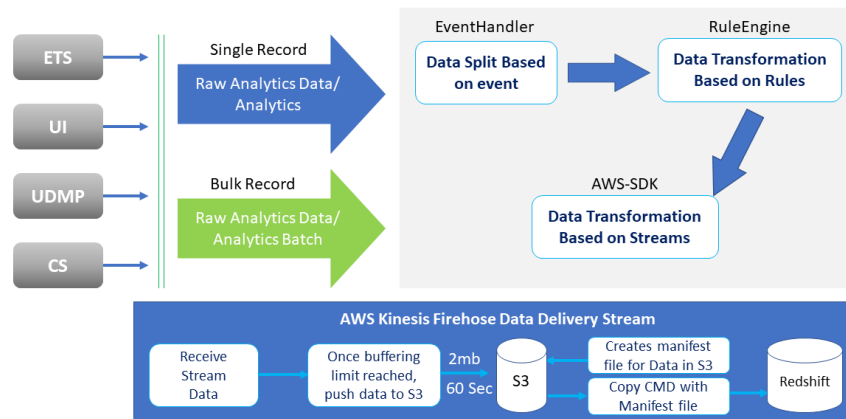
the business requirements, the components used in the product, and its future scope. Amazon Kinesis was proposed as the service for solution development. Xoriant contributed the client with technology consulting and end-to-end software development lifecycle. Our contributions include:

- Research on available streaming engines to integrate different components, provide a quick solution, and reduce cost.
- Build and demonstrate proof of concept for solution development using Amazon Kinesis and providing the effectiveness of using the service in their product.
- Designed a phase-wise implementation approach considering the components in Node.js environment, their configuration, and integration.
- Creation of performance data set and test the new system to ensure high requests.
- Designed a stage-wise system migration strategy of existing components with the new components, while minimizing product risk.

Client Testimonial

With Xoriant's engineering acumen and expertise in end-to-end software development lifecycle, we were able to achieve real-time data processing and significant cost reduction in our business systems.

High Level Architecture

Technology Stack

Node.js | AWS Kinesis | Rest API | Express.js | Rule Engine | Amazon S3 | Redshift | JSON | Docker

Xoriant is a Silicon Valley headquartered product engineering, software development and technology services company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our eight global delivery centers with over 2500 software professionals. Xoriant has deep client relationships spanning over 25 years with various clients ranging from startups to Fortune 100 companies.