



MICROSERVICES ARCHITECTURE FEATURE OF HCL'S PAS HELPS A LEADING SURGICAL PRODUCTS MANUFACTURER TO SIGNIFICANTLY **REDUCE TIME TO** MARKET THEIR PRODUCTS

The Client Profile

An American MNC involved in supply of ophthalmic surgical products supporting vision care and correction solutions.

Existing Business Challenges

Existing manual system poses day to day challenges in terms of operational efficiency

- Use of USB for manually transfer of data is error prone and inefficient.
- Physical access to the device is required by physicians to view the patient treatment data.
- Need to bring multiple devices into a connected device environment having a centralized data base

PAS

Platform Acceleration Suite (PAS) is a powerful software platform from HCL that provides necessary building blocks for building next generation software / services faster. PAS solutions bring together packaged application frameworks, re-usable software components, automation tools for developers & testers, support for best of breed architectural patterns and best practice templates to provide acceleration to the development of software / platforms.

Solution

- Solution built to support a connected device platform with centralized database that would automate transfer of eye treatment data between devices
- Web Interface will allow remote access to system to maximize efficiency and better utilization of resources

- The connected device environment designed to reduce manual intervention and increase the per day patient handling capacity
- A single deployment model to support both on premise and cloud deployments
- Cloud Deployments would be multi-tenant with full FDA Class III Compliance

Benefits

How PAS helped

- Standardized and Integrated technology stack of PAS provided abstraction of complexity of cloud deployments and on premise deployments
- Standardized architecture & design reduced performance and scalability issues
- Reusable components lowered the overall efforts and time to market
- Automation components within PAS solutions helped to increase developer productivity
- Multitenancy support in PAS helped to run the existing single threaded treatment algorithms as multithreaded service component, this in turn will increase patient handling capacity.
- Security compliance support from PAS helped in getting the solution complaint towards Cyber Security & HIPAA standards and guidelines

The Results

- Leverage of the reusable foundation of PAS reduced the effort spent on development by 17%
- Pre-Tested components of PAS helped reduce QA efforts by 20%
- The connected device solution would increase device usage; patient handling per day is expected to increase by 11%



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