Data Analytics at scale for Asset Core, an asset and loan security data service using 10Duke APIs

In the UK housing market, documentation and data relating to properties held by registered providers is currently held offline, in traditional spreadsheet and paper-based formats. When managing these property portfolios, this legacy approach means that the communication between housing associations, banks, valuers and corporate finance teams is very burdensome and time consuming.

Centrus Advisors, a corporate finance and structured finance advisor and Savills, the global real estate service provider, set out to create a new online tool to standardise and facilitate sharing of property data in 'real time' within the housing market ecosystem.

The Challenge

› Enable secure login to a web-based application that allows storing, analysis and sharing of asset & security data and documents for the £132 Billion social housing market in the UK

› Centralize the login experience, provide secure & seamless access to the application, support a multi-level role based access control framework required for access to sensitive data

› Support robust data analysis and reporting tools using an event-driven data service to produce in-depth and customisable reports without losing on performance

› Facilitate data exchange in 'real time' and create a framework for document management

The Specific Problem

The new web application was required to provide a secure environment for register providers where they could get a detailed, real time view of their assets. The goal was to secure and standardise the login process as well as enable the storage and exchange of data across the housing sector in order to provide fast and powerful data querying, analysis, sharing and reporting tools.

Tools to control access to sensitive data and enabling "real-time" sharing between entities was a new and key concept in increasing efficiency and accuracy in the housing sector.

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assetcore
property · data · sharing

Industry
Housing

Challenge
To create a secure cloud based data service with powerful analysis and sharing features

Solution components

🏢 **10Duke Identity Provider**

📈 **10Duke Event Data API**

Delivery timeframe
9 months

Coverage
United Kingdom

Key stats
› greatly reduced administrative burden
› reduced potential for errors
› secure and easy to access web based service

Website
www.assetcore.com

The Solution

The 10Duke APIs were able to provide the backend capabilities demanded by the AssetCore application.

The 10Duke Event Data API helped with the sophisticated reporting capabilities required, while the 10Duke Identity Provider API offered complex multi-organisation authentication and authorisation capabilities out of the box.

The cloud-based file management and other core capabilities were created with the 10Duke SDK which ensured a fast turnaround for such a complex application which permitted and encouraged AssetCore to market quickly.

Implementation Method

A joint project team was established to specify the application requirements, with 10Duke providing support for the integration of the APIs.

Development took 9 months, including testing and deployment.

Deployment Model

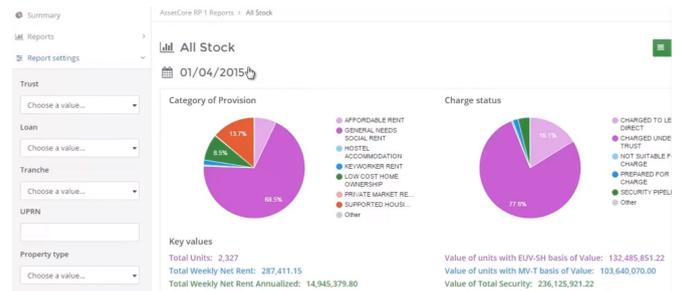Deployed on a SaaS basis from a 10Duke private cloud.

Result

Using the 10Duke APIs, AssetCore built an industry-wide collaborative web solution with powerful data querying, customisable reporting, document management and live data sharing capabilities.

The feedback received from the housing industry has been extremely positive.

› Reduced potential for errors in regards to data storage, accuracy and handling
› Substantially reduced property data reconciliation review time
› Ability to compare data between two points in time and track changes

> *Using 10Duke's APIs, we have been able to create an extremely complex service in a very short time frame that is also very easy to use.*
>
> *David Eastgate, Director of Housing Consultancy , Savills*

About 10Duke

10Duke provides a set of composable services, delivered as RESTful APIs, that cover capabilities such as Single Sign-On, federated identity management, content paywalls and metering, identity-based licensing, and cloud-based file management and conversion. 10Duke APIs have been used to create award-winning online applications for customers such as Rovio (Angry Birds), Trimble, Unilever, Arsenal Football Club, and Maserati.