aspire SYSTEMS

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Building a customer 360 with Boomi for a renowned environmental solutions provider

Situation

Our customer is one of the largest environment management companies in the world and provides water, waste and energy management for both the public and private sectors. With supplying millions of people with drinking water and wastewater service, they had issues with data management since there were various versions of master data entities in multiple systems, existence of dark data, and unavailability of data provision when needed. They were in desperate need of a solution that would actually integrate the data in their architecture and derive a single version of the truth.

Approach

In order to help our customer integrate their scattered data, we decided to take the ownership of initializing, architecting, designing, and building an end to end data asset solution platform. This approach helped the customers in having one central data housing all the master entries with their latest versions.

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Impact

We designed and developed a Unified Data Store (UDS) layer that established the rest of the data layers defined for various distinct stages of data flow. With the centralized data asset architecture in place, any new application getting on-boarded and integrated with the solution will have data connected seamlessly with very minimal effort since it is all routed through the common channel. Also, any new set of metadata getting added can be easily fit in to the existing data model and be readily available for consumption without any additional efforts because data elements standardizing is done using canonical data model.

We created a staging layer for all incoming data from multiple applications, stored in a raw format. Once the data is available in the staging layer, all master entities are then taken into the master data layer within the UDS area to have the latest version of the data set. The master data is then synced with Boomi Master Data Management on the cloud arena.

We fashioned out Process Integration flows to collate all the master data from various sources and merge data based on the latest version. Once the latest version of data is made available, it goes through a data cleansing process to remove any errors and finally enrich the data. The fully enriched data is then stored in the master data layer and is treated as a pure golden master record that can be consumed by various applications. Also, data is made available real-time to be consumed by any of the applications that need them.

We expanded on the Boomi AtomSphere module which is developed using Boomi connectors and defined all process orchestration flows, transformation rules, mapping logic to support various data formats, handle errors and data validations. All possible input data formats are supported in the architecture to consume data from multiple systems/applications.
To satisfy the requirements of service oriented architecture by wrapping the process flows, we built upon the Boomi API Management module using REST based APIs and the entire data layer exposed as services for easy consumption. Consumption of master data is leveraged by APIs for getting data from the UDS layer and publishing them to the target applications. APIs deliver data in a standard canonical format (NRF Standards, OpenHR), but if need be, there are additional services to transform data to the format that the target applications require.

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Technology & Services

- Boomi Modules
  - AtomSphere
  - API Management
  - Master Data Management
- Oracle 12c
- SAP
- ADP
- COUPA
- Salesforce
- ImageNow
- Exacc
- iSeries billing systems
- Domain Environmental Services
- Oracle Asset Management System

Key Takeaways

- Maintenance of high quality data in one central location with zero duplicates
- Availability of data in real-time with no avenues for data mismatch
- Consumption and synchronization of data in any format to have an universally accepted canonical data
- Automation and centralization of huge amount of data resulted in less consumption of time
- Elimination of errors in the invoices due to the availability of latest accurate data in the billing system
- Assurance of accurate and real-time reporting for business decision-makers