

Food and Nutrition Information Publishing to a Centralized Product Information System



ATTENTION. ALWAYS.



aspire 
SYSTEMS
attention. always.

THE CUSTOMER

Our customer owns software as a service package for a global graphics process management for brands. The software helps to manage, analyze and optimize the entire graphics process management. With the customer's software, the key features are to gain speed, efficiency, accuracy and ROI.

- ➔ Provides visibility that helps drive efficiencies
- ➔ Helps track and control brand assets
- ➔ Handle validated approval workflows to maintain compliance with regulations



HIGHLIGHTS

THE CHALLENGE

Our customer initiated this project with Aspire to design and develop a solution that gets the product's nutrition and ingredient information metadata to the leading production information cloud solution called "1WorldSync" without any manual intervention.



Business Challenges

- 1 The format in which the nutrition and ingredient information captured within the software was not compatible to be sent to 1WorldSync without doing a lot of manual mapping changes to match the format expected by 1WorldSync.

THE SOLUTION

- 2 Information related to the products were not available within a single stream of the software and hence takes lot of time for metadata consolidation.
- 3 Responses of the 1WorldSync updates were not easily able to get matched against the products and hence the latest status of those products was not having the relevant information related to product information cloud sync activities.
- 4 Since it was all a manual activity of getting the product's metadata consolidated and sent to 1WorldSync, it was all dependent on individual personnel's time and availability.
- 5 There was an urgent need to automate the whole process since there was an immediate requirement to have a customer's large product suite information to be synced to 1WorldSync.



Technical Challenges

- 1 Handling of complex business rules while developing transformations
- 2 Processing of multiple transactions at the same time when trying to connect to multiple instances of the process management software hosted for varied customers
- 3 Error handling related to various data related mismatches

Aspire designed and developed the solution for extracting the product's metadata related to nutritional and ingredient information and publishing to 1WorldSync system automatically. The automatic sync happens whenever a new product gets added to the system or if there were any changes made to the existing suite of products within the system.

The entire solution was designed and developed using AURAS 2.0 solution. AURAS 2.0 is a proven end-end development framework comprising of industry standard design patterns and multiple reusable components. The main advantage of having multiple reusable components is to have a rapid development cycle by not investing additional time and money in building

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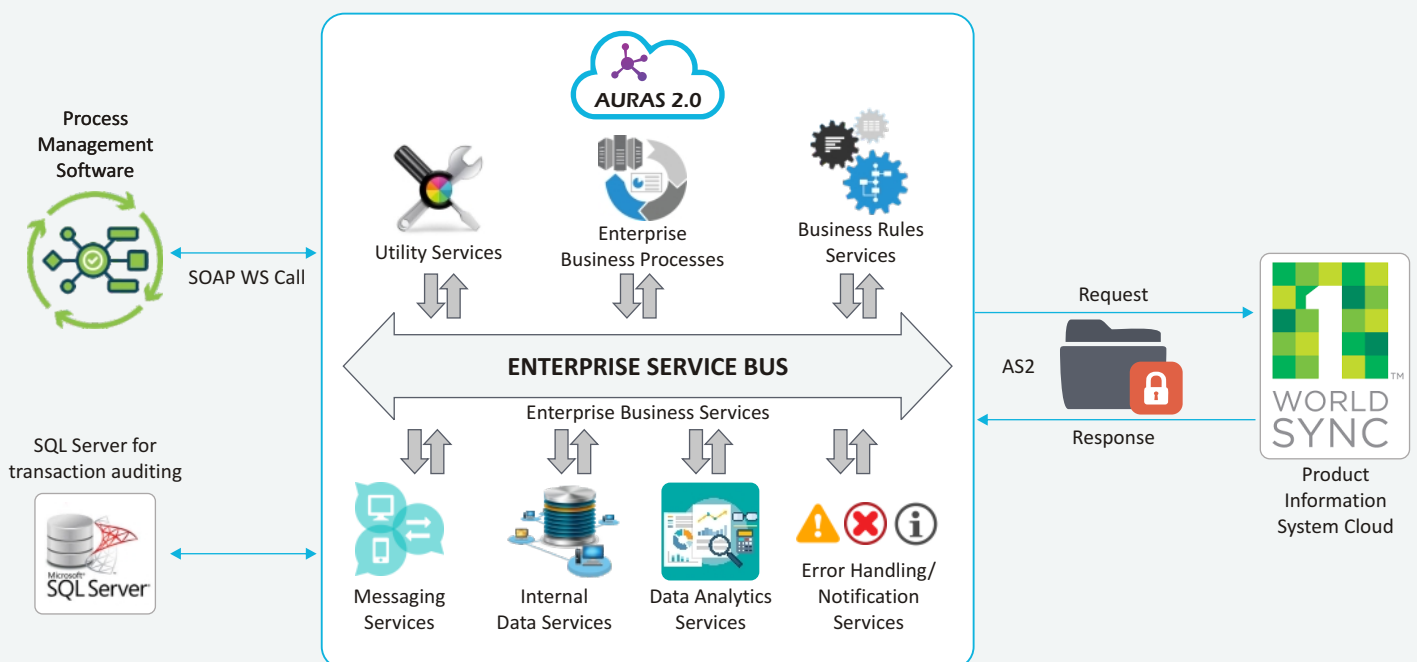
standard components such as Error Handling, Notification, Messaging Services and various utility services for connecting to standard applications. Since most of the important components are available within the framework on a reusable mode, the primary concentration of development would be to have all business logics and transformation rules that need to be put in place matching the integration requirements. MS SQL Server database used for recording the transactions.

The solution aims at retrieving production metadata from the existing graphics process management software to the centralized product information cloud system named "1WorldSync"

Basically, the solution has a scheduled process that queries the graphics process management software's service on a periodic basis to identify if there were any new products or existing product updates have happened. Upon discovering few such products, the solution is capable of retrieving the product metadata and does the data transformation to the format expected by the 1WorldSync standard definition.

Once the transformation is complete and validated, the finalized payload is sent to 1WorldSync system via the AS2 delivery mechanism. As a response, 1WorldSync system sends back a payload confirming if the product information that was sent made it to their system and if not, explain the reason with appropriate errors which will then be updated back to process management software.

1WorldSync Integration



KEY BENEFITS

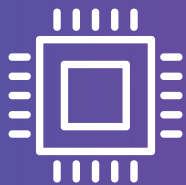
Project Blurb

There was a pressing need for the customer's nutrition/ingredient information section to be published to a centralized product information arena (1WorldSync) to manage and share information on their products that would reach the customer's consumers. 1WorldSync easily provides a channel to have the product's metadata reach the consumer market via eCommerce websites. Earlier, information used to get sent via spreadsheets, word documents and emails that paved way for manual errors. Keeping that in mind, the customer initiated this project with Aspire to design and develop a solution that get the product's nutrition and ingredient information metadata to the leading production information cloud solution called "1WorldSync" without any manual intervention.



- ➡ Large amount of time saved due to the entire process being automated.
- ➡ No avenues open for injection of errors since the entire process is automated.
- ➡ Real time syncing of product metadata achieved since the solution does a definite scheduled polling watching the products' updates happening within the process management software
- ➡ Return of Investment is well achieved because of the automation since the users or operators need not have to manually do the transformation and use the older techniques of getting product metadata into the product information cloud system
- ➡ Able to meet deadlines committed to the customers
- ➡ Able to instantly receive responses from the product information cloud system that dictates the correctness of product metadata and gives an immediate opportunity to have it corrected and resubmitted.

TECHNOLOGY SNAPSHOT



AURAS - Layers of Service:

Enterprise Business Processes

Enterprise Business Services

Internal Data Services

Data Analytics Services

Business Rules

Utility Services

Messaging Services

Error Handling and Notification Services

MS SQL Server

AS2 communication protocol

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Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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