



A LEADING SMB ERP FIRM GETS EMPOWERED

By Utilizing Sonata's Cloud offering

From Sonata Software - [The Platformation Company](#)



Our Client

They are the world's third-largest supplier of enterprise resource planning software with 6 million customer worldwide. They provide software products and services include integrated start-up, small, and midsized business (SMB) market. Their Product Suite includes Accounting and ERP, Construction and Real Estate, Asset Management, Payment and commerce, HRMS.

Opportunity

They faced multiple challenges including:

- Competitors were already providing ERP solutions on the cloud.
- Managing Licensing and onboarding of customers was becoming harder and time consuming day by day.

They had an opportunity to

- Reduce cost of maintenance by upgrading the technology stack and reducing the number of versions in the market
- Modernizing the experience of products and offering the solution on new devices and platforms.

Solution

As the Client needed the ability and proven expertise in modernizing, and to migrate their solution to cloud, and deliver a unique and integrated experiences to their customers, They Consulted Sonata to help them in their journey towards cloud based ERP offerings. Sonata built a Versatile Hybrid cloud solution reusing the Azure accelerator

- 01 Modernized Web application and create mobile companion apps
- 02 Distributed, Multi-tenant, SaaS based Managed Cloud application environment.
- 03 Exposing ERP functionality on cloud via modern industry standard web service interface APIs.
- 04 Modern user interface with better user experience.
- 05 Highly scalable and available application on the cloud with 99.95% availability with auto scaling features.
- 06 Atlest web and cloud technologies for loosely coupled and browser based application environment.

Key Results

Improved Onboarding - Our solution ease of onboarding of customers with quick turn around

Ability to extend the platform - We built a reusable framework that we used to migrate other products

Scalable and speedy development and deployment - A hybrid architecture ensured scalability, reuse of existing code, fast development and deployment

Reduction in the release cycle - Our Cloud Head start model of delivery has delivered the application 7 months ahead of time

48% cost savings - Our Engineering Excellence saved significant costs for the customer

Marketability - Modern UX, Mobile Companion Apps couple with Data mining & Business intelligence solutions made the product more marketable & competitive.

Data Cloud Connector

Middleware Solution | Rapid Development | Authentication and Communication

- Large Data Volumes – The connector has an alternate flow when it is required to send a large batch of data.
- Real Time Requests – the connector can be notified immediately when there is a request ready for processing.
- Transactional and Data Sync workflows – data synchronization to retrieve data from the ERP and returning it to the cloud and transactional requests to add something to the ERP and the connector needs to notify the cloud of success or failure.
- Cloud Driven Syncs – To monitor and control data sync between the on-premises system and the cloud.
- Multi-Tenant – support for uploading multiple back office datasets to different tenants in the cloud.
- Health Monitor – the monitoring service to enable customer's IT staff to check the health of the connector without logging into the machine it is installed on.
- Fault Tolerance – In the event of a failure, any request will be re-started once the machine is up again.
- Auto-Update – to deploy new versions of the plugins and domain mediators. This means bugs can be fixed and new functionality can be added without whole ERP update.
- Logging – This capability could enable future scenarios of identifying customer's issues before the customer knows they have them.

Data Stores

Polyglot Persistence | Multiple Data Stores

- Azure SQL - used to store most of the data uploaded from ERP due to its transactional nature.
- MongoDB - used to store large volumes of semi-structured data sent from the back office.
- Microsoft Azure Storage (blob, queue and table) - The data cloud has a need to store files, images and other unstructured binary data and those are stored inside an Azure storage account.

Rest APIs

Domain Driven Design | Harmonized data access | Re-Usable Functionality

- Domain based APIs - API's are segmented by the business domain the data belongs to.
- Application based Security – Application based Authentication to provide API's to other cloud or on-premises applications.
- Role Based – To secure an API call down to the CRUD level.

Platform Components

Background Processes | Multi-Instance | Multi-Threaded

- Multi-instance support – Scaled out or in by adding and removing a machine from the worker pool.
- Multi-threaded – Each instance of the worker process can run a configurable number of threads at one time.
- Scheduled tasks – For scenarios when you just want to run something at a certain time.
- Retry and Error handling – Built in fault handling to ensure a request is not lost.

WHY SONATA?

Our focus, depth of understanding and proven expertise in Retail Systems of Engagement make us stand out among our peers. We help retailers retain and enhance their customer base and provide personalized and consistent shopping experience across all channels through deeper business insights. Sonata's expertise stems from:

- 10+ years of experience working with Fortune 500 companies and 200+ successful implementations
- Retail Platform IP solutions that integrate Omni-Channel Commerce, Mobility, Social Commerce, Analytics & Cloud
- Experience with leading retail technologies: SAP Hybris, Microsoft Dynamics AX, Oracle, JDA
- Industry ready solution assets that reduce TCO and time-to-market
- Proven large scale implementations
- Global delivery model: Reach, Quality & Cost Effective service

Sonata's platformation approach helps clients to choose a solution that best fits their needs; balancing readily available platforms and solution customization

1. Sonata **READY**: End-to-end, industry-specific digital business platforms
2. Sonata **ACCELERATE**: Deploy popular horizontal platforms adding required functionality
3. Sonata **CUSTOM**: Engineer custom platforms that deliver unique digital capability and scalability

Sonata Software is a global IT solutions firm focused on enabling platform based digital business and technology transformation for enterprises in the Travel, Retail, Distribution and Software industries. Sonata's products and platforms, anchored on its proprietary Platformation methodology, reflect the company's commitment to enable connected, intelligent, open and scalable business systems.

Sonata's portfolio of products and platforms include Rezopia Digital Travel Platform, Brick & Click Retail Platform, Modern Distribution Platform, Kartopia E-Commerce Platform, Halosys Unified Enterprise Mobility Platform and RAPID DevOps, CloudOps and Testing Platform. These platforms have been deployed by leading enterprises across the globe to achieve future ready digital businesses.



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