

EBX MDM Design and Implementation for Laboratory Analysis & Management

ORGANIZATION

Our client is a leading global provider of end-to-end solutions that help scientists, researchers, and clinicians better diagnose disease, discover new and more personalized drugs, monitor the safety and quality of our food, and drive environmental and applied analysis excellence. Our client collaborates closely with commercial, government, academic, and healthcare customers to deliver reagents, assays, instruments, automation, informatics, and strategic services that accelerate workflows, deliver actionable insights, and support improved decision-making.

CHALLENGE

Our client faced challenges due to the need for governance to manage new product creation, updates, and retirements. When a new product was initiated in SAP, stakeholders were manually notified via email to provide the required product attribute data. Similarly, coordinating approvals and updates, as well as managing product retirements, were handled through email-based processes.

These manual workflows resulted in:

- Delays in the overall process due to manual intervention.
- Communication gaps between functional teams.
- Needs to be more efficient in notifying production teams about retired products.
- Difficulty tracking key metrics, such as the number of new product creations, updates, retirements, and the current stage of each workflow.

This lack of automation and centralized management hindered process efficiency and transparency across teams.

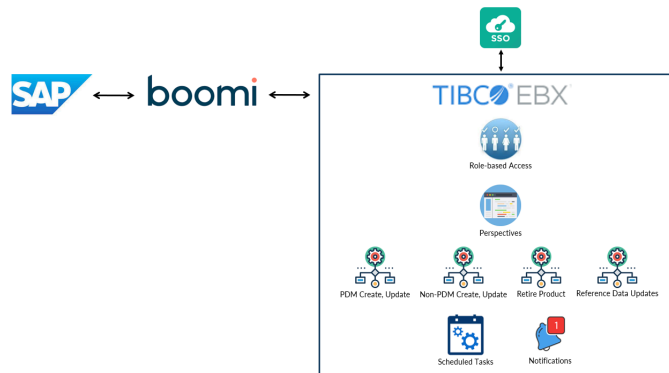
TECHNICAL SOLUTION

Our client engaged XTIVIA for designing and implementing a TIBCO EBX solution to govern the creation, updates, and retirement of products. An initial discovery phase involved understanding the current-state pain points and future-state requirements (Phase-1, Phase-2, and Phase-3) and providing a budgetary estimate with resources, cost, and a detailed project plan. After obtaining approval for the project plan and budget, XTIVIA was engaged to implement the solution for phase 1, which would form the basis for later phases.

XTIVIA designed and implemented a scalable and extensible solution:

- Created the data model for 100 reference and 20 master data tables
- Supported the client in loading around 30 million rows in both reference and master data tables
- Validated the EBX infrastructure configuration in DEV, UAT, and PROD environments
- Created perspectives to fit the security and user experience needs of around 40 roles
- Implemented an SSO solution to authenticate into the EBX product MDM application by using SAML authentication with Azure Active Directory
- Implemented role-based security for data elements and workflows (read-only, create products, update products, retire products, and attribute-level edit access to specific roles)
- The daily product data updates coming in from SAP into EBX were staged in the child dataspace and processed on a scheduled basis
- Product updates from EBX were syndicated back into SAP via Boomi

- Reference data lookups were implemented, and when required reference data did not exist in EBX, a workflow was triggered to create the required reference data elements
- Leveraged EBX out-of-the-box feature as much as possible and implemented custom coding in Java as necessary
- Used best practices and naming conventions based on our experience
- Implemented reminders for workflows with no activity
- Implemented scheduled jobs in EBX for various Business functionalities
- Implemented more than 10 governance workflows for product creation and modification
- Implemented 50 business rules to identify and improve the data quality



BUSINESS RESULT

Our client realized the following benefits from XTIVIA's implementation of the EBX 6 solution for managing products.

- Faster data search at a global level in EBX.
- Automated workflow eliminating manual intervention and errors
- Significant reduction in process delays
- Improved coordination and communication between different departments
- Visibility into the product management workflow status at any given point in time
- Availability of high-quality and a single source of truth product master data

KEYWORDS

TIBCO EBX Implementation, EBX 6, Master Data Management Solution, Dell Boomi

SOFTWARE

AWS, Linux

SOFTWARE

EBX 6.x, EBX Add-on – Export, Information Search, Corretto Java 11 (provisioned in AWS), Git, PaaS PostgreSQL 13 (provisioned in AWS), Dell Boomi, Maven

ABOUT XTIVIA

At XTIVIA, we've provided IT solutions and consulting services for over 30 years. We offer a wide range of services, including technology assessments, IT service and asset management, software development, data analytics, cloud migration, DevSecOps, ERP, and enterprise content management. Our team of experts is dedicated to each discipline, ensuring that our clients receive the best possible service. We've partnered with industry leaders to bring our clients the latest solutions. Through strategic acquisitions, we've acquired talented people who are experts in their industries, passionate about what they do, and committed to providing exceptional service to our clients. Whether you need to improve your IT infrastructure or implement new software solutions, XTIVIA is here to help you achieve your business goals. Contact us today to learn more about our services. XTIVIA has offices in Colorado, New York, New Jersey, Texas, Virginia, and India. www.xtivia.com