

TIBCO EBX® Master Data Management Software

A single solution to manage, govern, and share all your data

TIBCO EBX® software is an all-in-one solution for managing your organization's data—master, reference, and meta—on premises or in the cloud. The EBX solution is agile, model-driven, multidomain, smart, scalable—and has defined the master data management market for over two decades. EBX manages all of your shared enterprise data, so you can use it to better support key business processes and strategic initiatives.

Capabilities

Your organization is capturing more data than ever, but that doesn't necessarily mean it's all high-quality data. EBX capabilities support handling high data volumes and ensuring both accuracy and consistency.

Collaborative Workflow

- **Conditions:** Define conditional rules between workflow tasks
- **Custom emails:** Customize HTML emails for end users
- **Deadlines & reminders:** Configure deadlines on tasks and auto reminders
- **Drag and drop configuration:** Point, click, and configure
- **Error management:** View errors and re-launch/reallocate/delete workflows
- **Graphical orientation:** Both horizontal and vertical
- **Inbox:** View, open, sort, and search tasks
- **Monitoring:** View current and completed workflows
- **Notifications:** Email notifications on allocated or offered tasks
- **Parallel workflows:** Launch parallel sub-workflows

- **Priority management:** Define priorities for each workflow task
- **Server tasks:** Configure tasks executed on the server (scripts)
- **Task library:** Use prebuilt-tasks (create record, version, access data, etc.)
- **User tasks:** Configure task for end users, individual or group
- **User matching tasks:** Configure matching policy for in-line matching task
- **Workflow dashboard:** Check each workflow status and history
- **Workflow designer:** Use a browser-based workflow modeling tool
- **Workflow engine:** Use a fully integrated workflow engine

Data Authoring

- **API:** Develop custom UI services using EBX Java API
- **Auto-generated UI:** Dynamically generate the user interface from the data model
- **Browse data:** View datasets, tables, and hierarchies
- **Custom layout:** Reconfigure auto-generated web forms layout
- **Grid edit:** View a spreadsheet-like edition of data in tables
- **Mass update:** Apply data updates on record selection or search
- **Microsoft Excel export:** Export Excel spreadsheets (xls, xlsx, csv)
- **Microsoft Excel import:** Import multi-sheet Excel documents with mapping, including .xlsm
- **Mobile applications:** Support mobile and tablet devices (iOS, Android)
- **Multidomain:** Browse all data assets with one unique front-end
- **Multimedia:** Link to resources including images, maps, videos, docs
- **Permalinks:** Copy, paste, and email direct links to any data
- **Perspectives:** Configure data-driven applications by user role
- **Quick Search:** Use simple, fuzzy, exact and/or wildcards
- **Search:** Use simple, multi-criteria, or fuzzy search on any object or metadata, search on a combination of attributes or associations and logical operators
- **Side Bar:** View/record/update metadata, dataspace, datasets and other fields
- **Simple import/export:** Import and export data in CSV, XML formats
- **Tabs:** Organize groups of fields in tabs
- **Views:** Configure and share custom views with filters
- **Visualization:** Visualize relationships between data
- **Web components:** Integrate any part of the UI in third-party portals or web apps
- **Web forms:** Auto-generate forms for data entry

Data Distribution and Geographical Federation

- **Clustering:** Expose a cluster for real-time data access
- **Encryption API:** Encrypt data at synchronization time
- **Geographical federation:** Distribute instances across regions
- **Hot deployment:** Add replica instances on the fly in a D3 cluster
- **Primary/replica sync:** Synchronize a primary instance with many replicas
- **Transactional:** Use two-phase commit on sync between instances

Data Integration

- **API:** Full Java API to integrate additional services
- **Business Objects:** Context optimization
- **Business Object Definition:** Business object definition available in java API
- **Auto-generated services:** Dynamically generate services from data model
- **File import/export:** Import or export files in CSV, XML formats with statistics, set default options
- **JMS:** Publish and subscribe to and from JMS queues
- **Mapping:** Map between source systems and data model
- **Microsoft Excel:** Import or export multi-sheet Excel spreadsheets
- **Native SQL access:** Query your data assets in native SQL
- **RDBMS connector:** Import and export data to and from any RDBMS in SQL
- **REST data services:** Auto-generate web services (RESTful/JSON)
- **SOAP data services:** Auto-generate web services (SOAP/WSDL)
- **Standard interfaces:** Support OpenAPI
- **Transformation:** Use complex transformation rules for file import
- **Split fields:** Transformation to split field into multi-valued attribute
- **Transformation Hints:** Functions input and output documentation

Data Modeling

- **Browser-based modeling:** Allow collaboration between business and IT users
- **Complex hierarchies:** Support any type of hierarchy
- **Computed fields:** Auto-calculate values based on business rules
- **Cross-domain relationships:** Link between master data domains
- **Data model versioning:** Keep track of your data model enhancements over time
- **Graphical rendering:** Display data model relationships across multiple domains
- **ID management:** Define simple or composite keys with auto-generated IDs
- **Inherited fields:** Show inheritance values across any level of relationship
- **Many-to-many links:** Define complex cardinalities between objects
- **Mixed-model support:** Design relational and object-oriented data models
- **Model extensions:** Enrich data models by adding properties and constraints to data model elements
- **Model lifecycle management:** Fully control data model versions
- **Multi-language:** Use metadata in any language (UTF-8)
- **Publish on the fly:** Publish model changes without redeploying
- **Reusable types:** Define reusable and documented data types
- **TeamUp:** Enriched collaboration and social features such as comment, rate, and tag
- **Templates:** Provide domain-specific data model templates
- **Workflow:** Manage data model changes with an EBX workflow
- **Optimize search:** Set Default and Targeted search strategies, exclude attribute from Quick Search
- **XML schema:** Natively support of the XML schema standard

Data Quality

- **Business rules:** Use rules/scripting language and editor for complex validation control
- **Data types validation:** Support standard or custom data types
- **External controls:** Call external services for third-party validation
- **Profiling:** Profile data with prebuilt procedures
- **Validation API:** Develop additional controls with Java API
- **Validation controls:** Use min/max, patterns, and list of values
- **Validation reports:** View error reports with interactive correction

Data Matching and Merging

- **Batch matching:** Match large datasets in batch mode
- **Cleansing:** Cleanse data with pre-built procedures
- **Decision trees:** Flexibly define how records are matched to each other
- **False negative protection:** Reduce false negatives with two-level matching
- **Match in UI:** Perform matching inside data authoring UI in real time
- **Matching algorithms:** Use included library of matching algorithms
- **Matching on any object:** Add matching rules to any table or field in a model
- **Merge record:** Merge or simulate suspect records with pivot
- **Multifactor matching:** Configure matching policies on multiple fields
- **Metadata:** Matching metadata via SQL from replicated table
- **Migration:** Matching configuration can be staged for migration or import/export
- **Real-time matching:** Perform matching at the point of entry
- **State machine:** Use full state management of records (golden, suspects, etc.)
- **Stewardship:** Use full stewardship user interface for reviewing and merging duplicates
- **Survivorship:** Enforce auto merge rules on duplicates
- **Trust framework:** Use best record/fields based on trusted source configuration

Data Security & Business Roles

- **Enterprise directory:** Integrate with third-party directories (LDAP, AD)
- **Field-level security:** Configure access rights down to the field level
- **HTTPS/SSL:** Use SSL encryption of user interface and services
- **Permission rules:** Add specific filters at record level based on rules
- **Permissions on datasets:** Configure access rights for each dataset graphically, and use the RACI Matrix to see and manage dataset permissions
- **Permissions on domains:** Configure access rights for each data domain
- **Permissions on history:** Scripted permissions enabled
- **Roles and users:** Define user groups and combine roles for users
- **Single sign-on:** Integrate with third-party SSO systems
- **Web Service Security:** Support HTTP-authentication and WSSE

Digital Asset Management

- **Edit metadata:** Review metadata and tags associated with digital assets
- **Integration:** Support multiple storage systems and APIs for advanced integrations
- **Library of digital assets:** Create and manage libraries of digital assets
- **Tile view:** Display records as cards with graphics
- **Upload assets:** Upload documents and media on a mass-scale
- **Export assets:** Export assets to .zip sorted by drive name
- **Version control:** Manage multiple versions of your digital assets
- **Migration:** Digital assets migrate via staging
- **Set resolution:** Set the resolution when downloading an asset
- **View digital assets:** View digital assets in the user interface

Graph Visualization

- **Auto/manual layout:** Use tools to automatically arrange nodes for improved readability
- **Customization:** Configure how nodes and links in a graph are rendered, including images usage
- **Data lineage:** Use primary graph types for horizontal, vertical, conceptual, or regulatory lineages
- **Data structure:** Organize relationships using a model-oriented view, hide links
- **Data value:** Show each and every connection as a node with classic graph view
- **Encapsulation:** Use domain or data classification-oriented view to encapsulate nodes
- **Layered:** Use generation-oriented view to show distance/hops from the first node
- **Org Chart:** Display organization data with graphics with mini map, view in step mode

Hierarchy Management

- **Any hierarchy types:** Support for balanced, unbalanced, and ragged
- **Boosted hierarchies:** By attributes—string and integer, “excel pivot” like mode, skipping levels
- **Custom hierarchies:** Customize how hierarchy nodes are rendered
- **Derived hierarchies:** Render hierarchies on the fly based on relationships
- **Explicit hierarchies:** User-defined hierarchies for an existing dimension
- **Filter:** Define filtering criteria at any level of a hierarchy
- **High performances:** Use Ajax technology for managing large hierarchies
- **Multi-parent support:** Attach and detach nodes to and from multiple parents
- **Prune mode:** Filter nodes that have at least one child
- **Recursive hierarchies:** Use hierarchies based on parent/child relationship
- **Relational hierarchies:** Use hierarchies based on links between objects
- **Dimensional clarity:** FK and group by dimensions are differentiated in the UI
- **View and edit:** View, move, and edit nodes
- **Wide & deep hierarchies:** Manage any number of levels and nodes without limitation

KPIs and Dashboards

- **Alerts:** Send real-time notifications and kick-off workflows
- **API:** Create your own indicators
- **Dashboard:** Set, visualize, and analyze KPIs with rich and interactive graphs
- **Email:** Share reports and scorecards by email
- **File export:** Export data in CSV, XML, and Excel
- **Flexible configuration:** Set computation frequency, lookback period, boundary conditions, and thresholds
- **Indicators library:** Monitor data and workflows with pre-built indicators
- **Native SQL access:** Query indicator results in SQL
- **Security & permissions:** Enforce and secure fine-grained access

Metadata Management (coming soon)

- **Auto-alignment:** Automatically align your metadata with your data
- **Business glossary:** Manage definitions and synonyms of business terms
- **Classification and lineage:** Use machine learning to classify metadata assets and build data lineages
- **Compliance and control:** Identify critical data elements, document definitions and report on compliance; Manage entitlements and provision access to data with governed workflows
- **Context-aware:** Adapt definitions to business contexts and user profiles
- **Data quality KPIs:** Track key data quality indicators on all your metadata
- **Discovery and extraction:** Automate metadata harvesting from on-premises or cloud systems
- **Governance:** Define ownerships and responsibilities on data
- **Metadata store:** Consolidate all your business and technical metadata in a single central place
- **Search and collaboration:** Search entire data catalogs and collaborate with social features including comments, ratings, and tags
- **Query:** Query on entity metadata
- **Visualization:** Visualize relationships between metadata

Mobile Capabilities

- **Access any data:** Create menus to access any data domain managed in EBX
- **Approvals:** Approve changes in workflows with full history and comments from your phone
- **Browse and view data:** Browse datasets and hierarchies with custom views to sort criteria
- **Digital assets:** View digital assets attached to any of your data
- **Favorites:** Manage favorites and share records with colleagues
- **Native iOS/Android app:** Download from the App Store or by side loading
- **Search:** Search on exact criteria or Google-like fuzzy queries
- **TeamUp:** Side bar, comments threads, records rating, and public/private tags management
- **Workflow on the go:** Manage your workflow inbox with native notifications

Platform Compatibility

- **Application server:** Tomcat and other application servers are supported and may be selected according to customer standards
- **Browser UI:** Edge/Internet Explorer, Chrome, Firefox, and Safari
- **Container Edition:** support for Kubernetes and Red Hat OpenShift®
- **Cloud databases:** Azure SQL Server, AWS RDS, Oracle Database Cloud Service
- **RDBMS for persistence:** SQL Server, Oracle, or PostgreSQL

Version Control

- **Compare and merge:** Three-way compare and merge with conflict detection
- **Future versions:** Manage future version of data using data spaces
- **Native SQL access:** Query the full history in native SQL
- **Past versions:** Keep track of past “as of” versions
- **Record-level history:** Keep track of all updates at dataset and record levels
- **Roll-back:** Roll-back data values at any point of time, at record level
- **Sandbox/playground:** Create ad-hoc versions for testing new ideas
- **Staging:** Manage staging versions for data import and migration, import on start-up
- **View & search history:** View and search datasets, tables, and fields

Learn more about TIBCO EBX master data management at
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TIBCO, a business unit of Cloud Software Group, has helped global enterprises solve their most complex business challenges for more than 25 years. The TIBCO Platform delivers industrial-strength solutions that meet the highest performance, throughput, reliability, and scalability needs while offering the widest range of technology and deployment options to deliver real-time data where it's needed most. Learn how TIBCO solves its customers' mission-critical software needs at www.tibco.com.

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