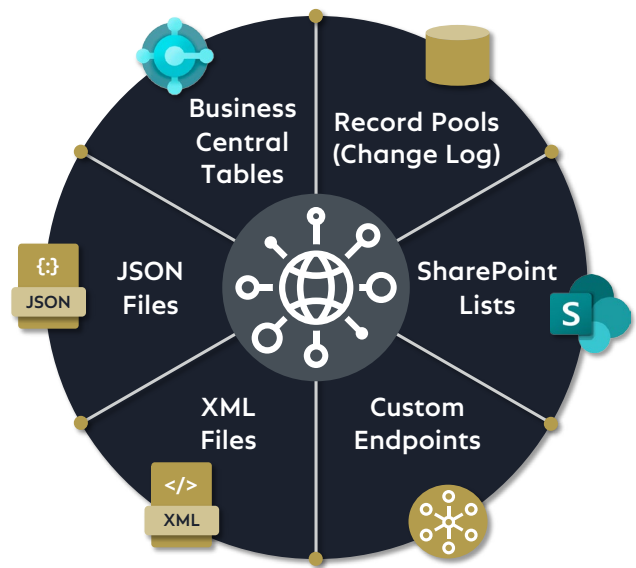# COSMO Data Integration Framework

Cross-client bidirectional data exchange

The **COSMO Data Integration Framework** is a comprehensive data management solution for Microsoft Dynamics 365 Business Central. It enables users to easily import, export, and manage data from a wide range of sources, including Business Central tables, Record Pools, XML nodes, JSON tokens, and Microsoft SharePoint lists. With its powerful mapping capabilities, users can define actions to process data, set field values, and use codeunits to add custom business logic. The app is fully extensible, allowing users to customize it to meet their specific needs. Additionally, it supports data exchange with other Business Central systems and external sources, making it ideal for intercompany and master data management processes. If you are looking to streamline your data management processes and improve efficiency, **COSMO Data Integration Framework** is the perfect choice.
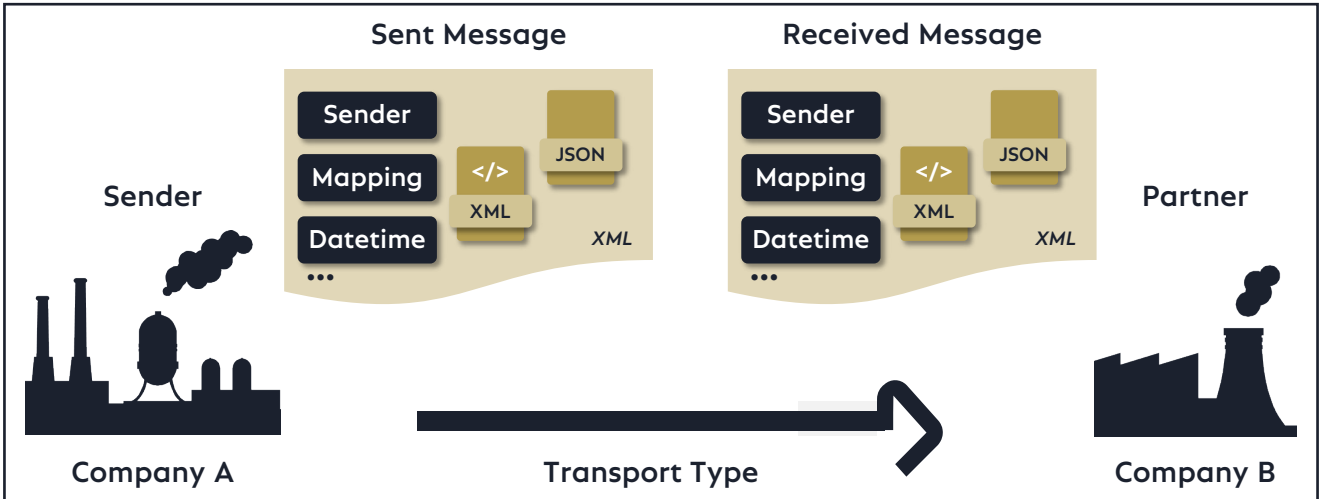

Highlights

- Support for a wide range of data sources, including Business Central tables, Record Pools, XML nodes, JSON tokens, and Microsoft SharePoint lists
- Flexible mapping capabilities, including the ability to define actions to process data, set field values, and use code units to add custom business logic
- Support for data exchange with other Business Central systems and external sources
- Fully extensible, allowing users to customize the app to meet their specific needs, including access to the source code API for advanced customization
- Mapping entry log for tracking and error analysis
- Support for intercompany and master data management processes
- Flexible data filtering and sorting options
- Support for various data types and conversion options
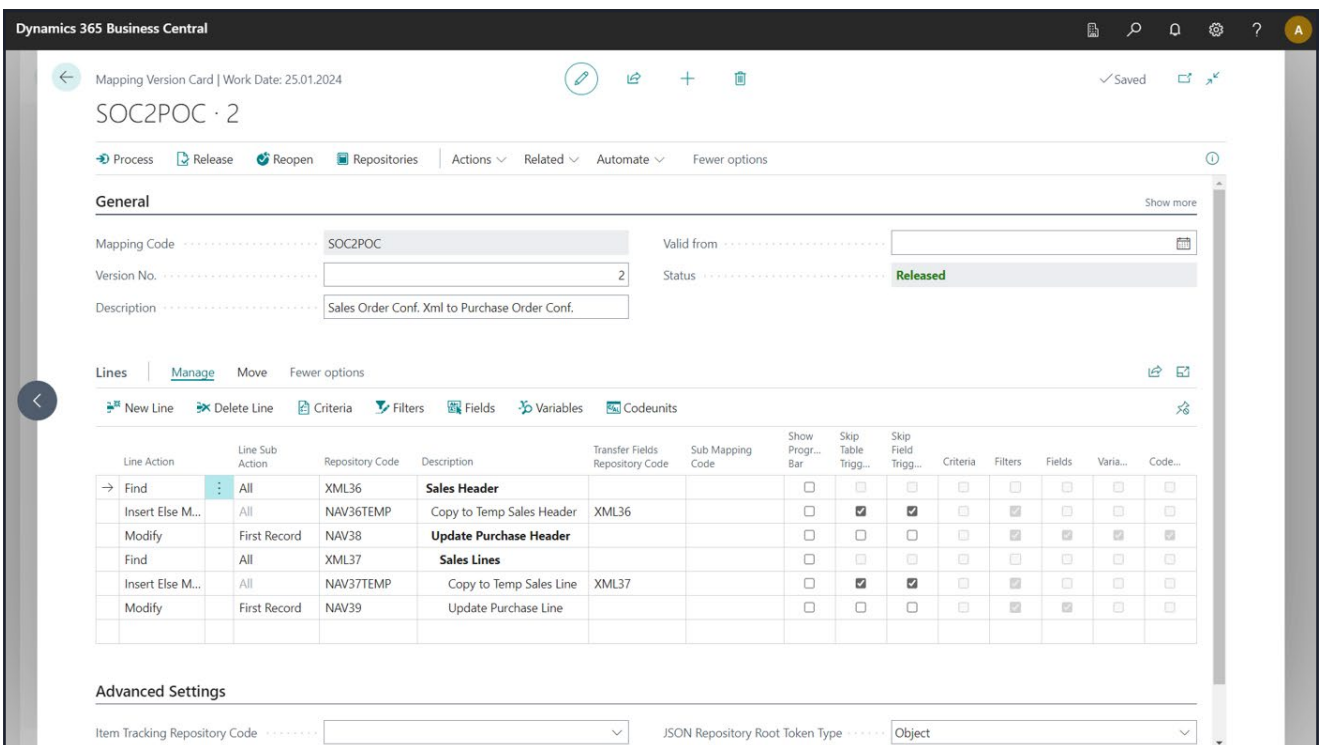- Robust notification system for alerting administrators of errors and other issues.

COSMO Data Integration Framework is a powerful data management solution that allows businesses to easily exchange and manage data across different systems, platforms, and companies. It is an extensible, no-code/ low-code application that can be easily customized to meet specific business needs, making it a versatile tool that can be used in a wide range of industries.
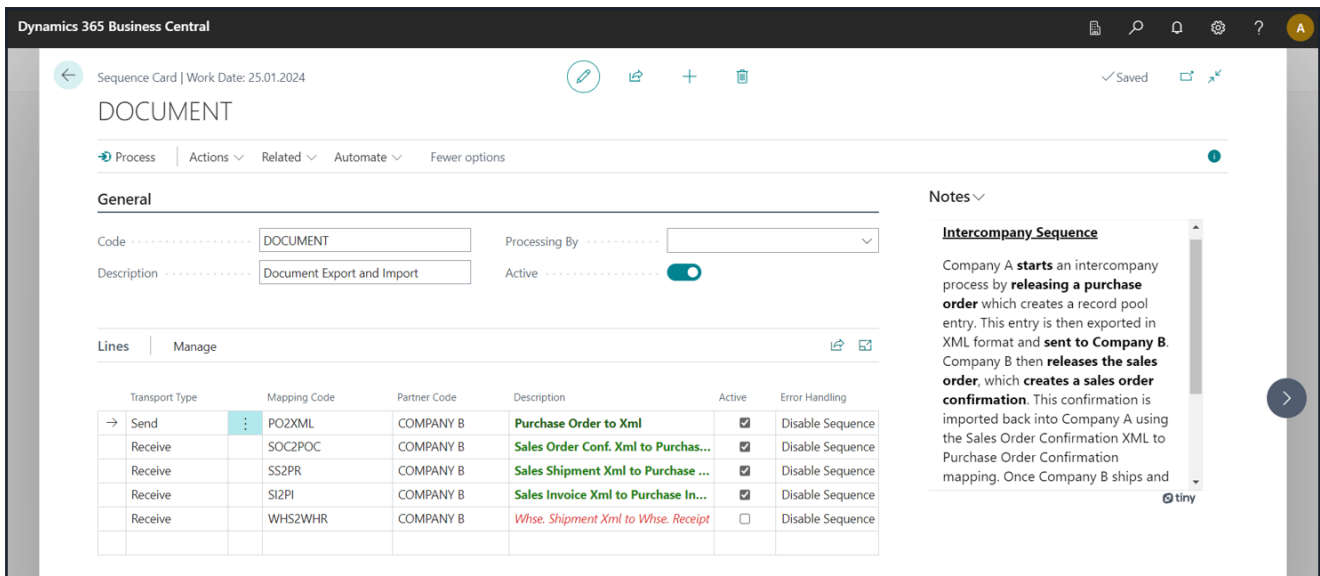
One of the key features of **COSMO Data Integration Framework** is the ability to create mappings, which define how data should be changed and can be used for modification of data, import or export of data, or all at the same time. Mappings are versioned, which allows for easy management and updates of data. Additionally, the framework also includes record pools, which log changes in Business Central records, and sequences, which process mappings in a defined order.

The **COSMO Data Integration Framework** can be used to solve a wide range of business problems, such as intercompany data exchange, master data management, and communication with external systems. It also can be used to automate business processes such as inventory management, financial data integration, and supply chain management.

The benefits of using **COSMO Data Integration Framework** are numerous, including increased efficiency, improved data accuracy, and the ability to automate business processes. This can lead to significant cost savings and improved productivity for businesses. The framework also integrates seamlessly with Microsoft Dynamics 365 Business Central, so businesses can take full advantage of the platform's capabilities.

Benefits

- Improved data management: The framework allows for efficient management of data from different sources in one application, making it easier to exchange and analyze data.
- Increased productivity: The no-code/low-code nature of the framework enables users to make complex data management tasks without requiring programming knowledge, increasing productivity.
- Cost savings: The framework is developed in Microsoft Dynamics 365 Business Central, which eliminates the need for additional 3rd party applications or licenses, resulting in cost savings.
- Better platform collaboration: The framework enables communication across different generations of Business Central, formerly Dynamics NAV, and different infrastructures (Cloud and OnPrem) and allows for easy data exchange with external partners.
- Greater scalability: The extensibility of the framework allows for customization to meet the specific needs of the business, making it scalable as the business grows.
- Better data Governance: The framework provides a clear log of the mapping execution, enabling error analysis and informative purposes.
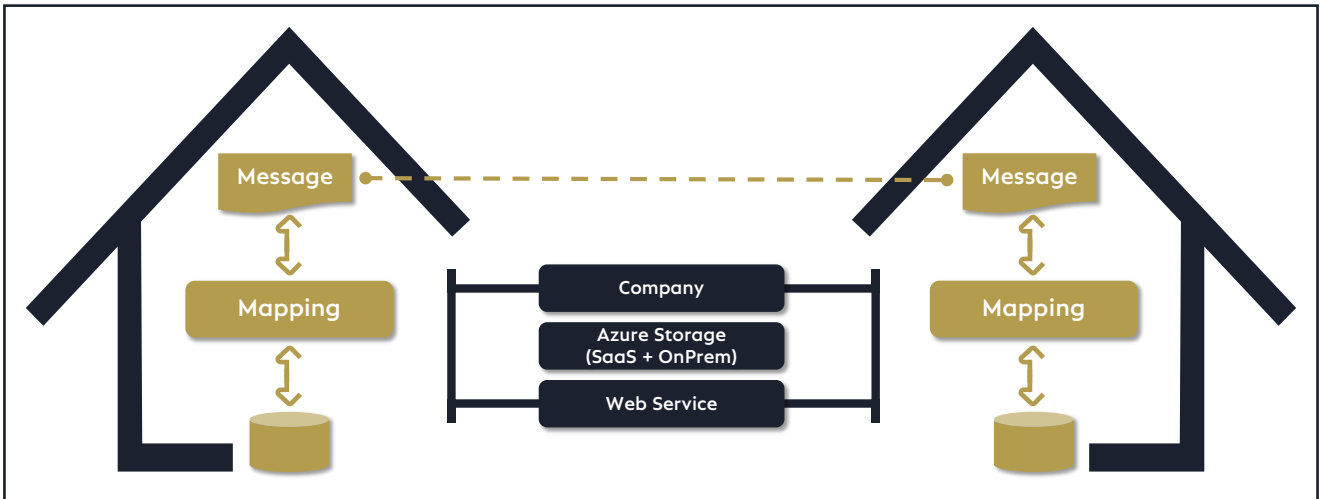
In conclusion, **COSMO Data Integration Framework** is a powerful, versatile, and easy-to-use data management solution that can help businesses to improve data accuracy, efficiency, and automation. It offers a wide range of features that can be customized to meet specific business needs, making it an ideal solution for businesses of all sizes and industries.

Intercompany

The **COSMO Intercompany** extension of **COSMO Data Integration Framework** is a powerful solution that enables businesses to seamlessly exchange data between different Microsoft Dynamics 365 Business Central systems. This extension allows for better Intercompany and Master Data Management processes, making it easier for businesses to manage and maintain accurate and consistent data across multiple companies and locations.

With **COSMO Intercompany** extension, businesses can easily share data such as customer and vendor information, financial data, and inventory levels between different companies and databases. This eliminates the need for manual data entry and reduces the risk of errors, saving time and increasing productivity. It is fully integrated with the **COSMO Data Integration Framework** and offers a range of advanced features, including Mappings, Record Pools, Partners, Mapping Entries, Sequences, Notifications, and Conversions.

These features provide businesses with greater control over their data, allowing them to set up complex data management scenarios and automate processes. The app offers a Mapping Configuration Wizard that simplifies the process of setting up a mapping to export or import data from an XML or JSON file. Additionally, the framework offers a variety of Line Actions that allow businesses to interact with a repository in various ways, such as finding, modifying, renaming, or deleting data.
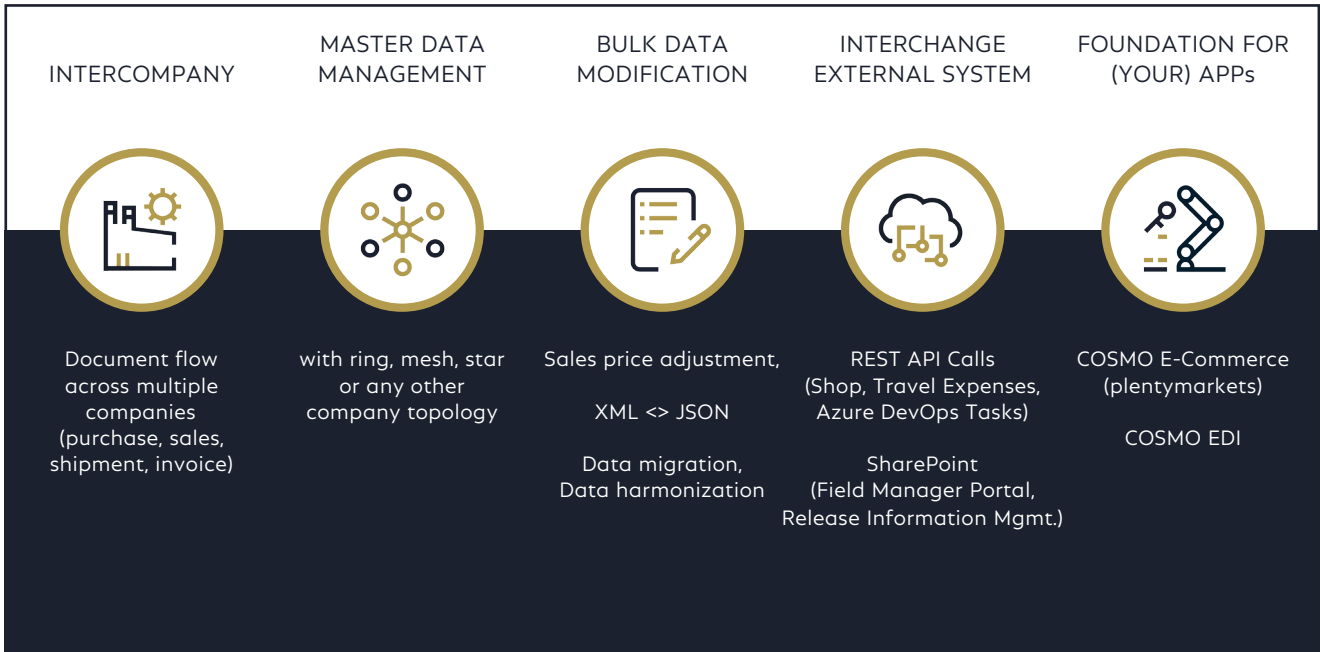
Highlights

- Ability to share data between different Microsoft Dynamics 365 Business Central systems (SaaS, OnPrem and different generations)
- Automation of data management processes
- Line Actions (e.g. Find, Modify, Rename, Delete) capability to perform not only Insert and Modify of data but also Rename and Delete operations making the solution more versatile and powerful than other similar apps
- Ability to ensure accurate and consistent data across multiple companies and locations
- Possibility to restrict user interactions for specific companies, which ensures that data is managed only by authorized users in the defined company and protecting data integrity across the system
- Simplified setup for export/import of data in XML and JSON files

Benefits

- **Improved data management:** The extension provides businesses with advanced features for managing and maintaining accurate and consistent data across multiple companies and locations.
- **Increased flexibility:** The extension offers a variety of Line Actions that allow businesses to interact with a repository in various ways, such as finding, modifying, renaming, or deleting data.
- **Automation of processes:** The extension allows businesses to automate data management processes, saving time and reducing the risk of errors.
- **Better control over data:** The extension gives businesses greater control over their data, allowing them to set up complex data management scenarios and manage data more efficiently.

COSMO Intercompany is a powerful solution that enables businesses to seamlessly exchange data between different Microsoft Dynamics 365 Business Central systems. This extension allows for better Intercompany and Master Data Management processes, making it easier for businesses to manage and maintain accurate and consistent data across multiple companies and locations.

INTERCOMPANY	MASTER DATA MANAGEMENT	BULK DATA MODIFICATION	INTERCHANGE EXTERNAL SYSTEM	FOUNDATION FOR (YOUR) APPs
Document flow across multiple companies (purchase, sales, shipment, invoice)	with ring, mesh, star or any other company topology	Sales price adjustment, XML <> JSON, Data migration, Data harmonization	REST API Calls (Shop, Travel Expenses, Azure DevOps Tasks), SharePoint (Field Manager Portal, Release Information Mgmt.)	COSMO E-Commerce (plentymarkets), COSMO EDI

To use the Intercompany extension, businesses must have a Microsoft Dynamics 365 Business Central system in place. This extension is fully integrated with **COSMO Data Integration Framework** and offers a range of features including Mappings, Record Pools, Partners, Mapping Entries, Sequences, Notifications, and Conversions. These features provide businesses with greater control over their data, allowing them to set up complex data management scenarios and automate processes. The Intercompany extension also offers a Mapping Configuration Wizard that simplifies the process of setting up a mapping to export or import data from an XML or JSON file. Additionally, the framework offers a variety of Line Actions that allow businesses to interact with a repository in various ways, such as finding, modifying, renaming, or deleting data. Furthermore, it is possible to restrict user interactions with data, such as insert, modify, delete and rename, to specific companies, ensuring that data is managed only by authorized users in the designated company and protecting data integrity across the system.

Austria • Chile • China • Columbia • Ecuador • France • Germany • Hungary
Mexico • Panama • Peru • Romania • Spain • Sweden • Switzerland

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