

Integration with Microsoft Dynamics 365 – Fast & Efficient

The **SF Integration Platform** enables you to build integrations with Microsoft Dynamics 365 for Finance and for Supply Chain Management efficiently. It delivers deep integration with Dynamics 365 out-of-the box and lets you focus on data processing. Automate your processes and get started with exchanging and transforming data quickly, based on a robust, extensible, scalable and cost-effective platform!

CHALLENGES

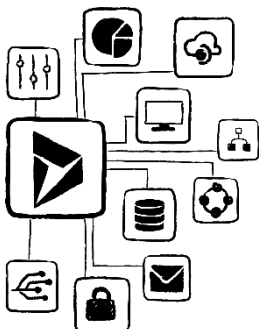
Building integrations with Microsoft Dynamics 365 can be a complex task, some typical challenges are:

- **Synchronous as well as asynchronous integrations** are required, they may be message-, file- or service-based.
- **Data transformations** are vital to support individual data formats for exports and imports.
- **Push- and pull scenarios** are needed, Dynamics 365 as well as external systems must be able to start export- and import operations, either immediately or scheduled.
- **Full transparency with end-to-end tracing** for all exports and imports is indispensable.
- **Reply messages** on record level must be implemented, e.g. to show which invoice was posted or which record could not be processed.
- **Integrations with On-Premises systems**, which are not directly accessible from the Cloud, must be built.
- **Dynamics 365 capabilities evolve** at a very fast pace, the changes may affect existing integrations and require re-design.
- **Planned and unplanned system outages** must be considered.
- **Source-control and automated deployment** are crucial for efficient development and operation processes.

SOLUTION

The **SF Integration Platform** allows to overcome the listed challenges in a smart and easy to use way.

- **Get started quickly**, based on a robust, extensible, scalable and cost-effective platform.
- **Deep integration with Dynamics 365 out-of-the box**, e.g. generic data mapping, extended error handling, etc. are ready to use.
- **Cloud native application** with no need for local installations, even if on-premises integrations are needed.
- **Transparency and traceability** through a central point of integration which supports buffering of messages to handle downtimes of Dynamics 365.
- **Easy and fast format transformations** with C# and .NET Core based Microservices.
- **Efficient deployment** with infrastructure as Code (IaC), Continuous Integration (CI) and Continuous Deployment (CD) processes.
- **Event based integration** with existing Enterprise Service Bus (ESB) solutions / Integration Platform as a Service (iPaaS) solutions, e.g. to transport EDI messages.
- **Less affected by continuous updates**, the platform takes care of internal Dynamics 365 changes and can deliver support for new features as needed.



KEY FUNCTIONALITY

- Central point of integration between Dynamics 365 for Finance or Dynamics 365 for Supply Chain Management and external services:
 - No direct communication between ERP and 3rd party solutions.
 - Cloud to On-Premises connectivity without publishing local services.
 - Buffering of messages to keep running in case of system downtimes.
- Full transparency, end to end:
 - Central log with end to end tracing of all incoming and outgoing messages with Application Insights.
 - Archive for imported and exported data for a configurable period.
- Support for all kind of asynchronous and synchronous import- and export scenarios:
 - Multiple data formats: Excel, CSV, TXT, XML, Package/Zip, Custom
 - Scheduled- (push) and externally requested- exports (pull).
 - File based exports and imports with Azure File Share, no local installation is needed.
 - Event based integration and extension, e.g. to work with existing ESB/iPaaS solutions.
- Data mapping and transformation service:
 - Pre- and postprocessing steps to enable data mappings and format conversions.
 - Generic Data Mapping service with support for multiple input and output values based on settings in Microsoft Dynamics 365.
 - Custom data transformations with a code-first approach, e.g. to convert from XML to IDoc.
- Highly available infrastructure based on containerized Microservices (Docker, Kubernetes):
 - Infrastructure as Code (IaC) to automatically create and maintain resources in Azure.
 - Consistent performance without requiring expensive infrastructure.
- Fully automated DevOps process:
 - Full source-code management.
 - Automated builds & container creation.
 - Automated deployment to separated Development, Test and Production environments.

CONTACT DETAILS

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