Product Description
d.velop connect for Dynamics 365 F&O

1 Summary

The following text describes the functions and services provided by d.velop connect for Dynamics 365 F&O. The information in the "Product Description d.velop cloud platform" also applies to d.velop cloud customers. Services relating to support, availability, and updates for d.velop connect for Dynamics 365 are described in the "Service Level Agreement".

d.velop connect for Dynamics 365 F&O is an interface customers can use to connect their Microsoft Dynamics 365 Finance and Supply Chain Management (F&O) with their d.velop document management system (DMS), regardless of whether they use d.velop documents, d.velop documents (on premises) operated as a hybrid solution, or d.velop documents for Microsoft 365. Doing so allows customers to store documents from their ERP software in their DMS, the company-wide information center.

2 Definitions

2.1 Application Programming Interfaces (hereinafter "APIs")

The APIs are provisioned by systems and have certain functions that make it possible for other programs to connect to the system in question and use specified functions.

2.2 Representational State Transfer (hereinafter "REST")

REST is a software architectural mode for provisioning standards among various computer systems in order to enable communication among the systems.

2.3 Microsoft Dynamics 365 Finance and Supply Chain Management

The name of Microsoft Dynamics 365 Finance and Operations, or F&O, has been changed in the past. It was most recently changed to Dynamics 365 Finance and Supply Chain Management. We are referring to the same Microsoft platform when we mention both F&O and SCM. The following text usually refers to it as F&O or the ERP system.

2.4 d.velop connect for Dynamics 365

The connector for connecting the customer's Dynamics 365 F&O system to the d.velop platform, which is also referred to as the adapter in the following.

3 Architecture

There are two components that communicate with each other via web services and have the following tasks:

- d.velop connect for Dynamics 365 F&O

- This engine within the ERP system provisions the required functions and APIs for operation within the ERP system.
  - d.velop connect for Dynamics 365
- This middleware is operated within the d.velop platform and is located outside of the ERP system.

d.velop connect for Dynamics 365 F&O can be operated as an SaaS solution or as an application for an on-premises installation. Customers much choose the same operating form for this middleware and operation of the ERP system to make it possible to reach the necessary web service endpoints. That means if the ERP system is operated in the cloud, d.velop connect for Dynamics 365 must be operated in a d.velop cloud tenant. If the ERP system is operated on premises, d.velop connect for Dynamics 365 must be operated on-premises as well.

If the customer runs downstream specialized applications (such as d.velop documents, d.velop connect for Microsoft SharePoint, smart invoice) using a different operating form, these specialized applications can be connected via d.velop platform connect using a hybrid configuration.

The adapter provides configuration and business objects to the entire platform and can be consumed bidirectionally through additional apps.

That is possible using the connector d.velop connect for Microsoft SharePoint, which also enables seamless collaboration with d.velop documents for MS365 (SharePoint online). It also contains a standardized collaboration with d.velop invoices.

The following chapters describe the exact scope of functions. The adapter contains a deployable package, which is a package that must be installed in F&O. It contains a workspace and underlying functions that make it possible to create a connection from F&O to the d.velop-side adapter.

4 Scope of functions

This section explains the scope of functions mentioned earlier in greater detail.

4.1 Deliverables

d.velop connect for Dynamics 365 F&O contains the following deliverables: an adapter (which is provisioned in the d.velop platform and acts as an endpoint and application within the platform) and a deployable package (which must be installed in F&O). The deployable package creates a workspace with the F&O look and feel and provides configuration items and underlying functions that are described in greater detail in the following.

4.2 Connectivity

The deliverables mentioned in chapter 4.1 are standardized and, as specified by the Microsoft Azure security architecture, connected with each other using an Azure AD application in order to enable bidirectional communication between the F&O system and the d.velop platform. On the F&O system side, an application user (including a defined security role) is connected with the Azure application and thus safeguards all access to the system.

4.3 Mode of operation

The adapter can be provisioned both in the cloud and on premises, which makes the cloud, hybrid, and on premises operating states possible. We recommend provisioning d.velop connect at the operational level of the ERP system. If F&O is running in the cloud, the adapter should also be operated in the cloud. If an on-premises d.3ecm is used, the hybrid configuration is a good solution. However, the combination of an F&O operated on premises and an adapter operated on premises is also supported.

4.4 Reporting and analysis options

The d.velop connect workspace in F&O has a monitoring function that tracks every document to be exported as a job in its life cycle, from creation to successful processing. If an error occurs, there is a detail level containing additional information about the error so users can understand and fix it. The job can then be executed again. This function is a transactional mechanism.

4.5 Managing user authorizations

An application user is required on both sides for bidirectional communication between Dynamics 365 F&O and the d.velop platform. On the F&O side, the deployable package contains security measures that restrict access to the information required for functionality. A service user with admin rights is expected on the d.velop platform side. On behalf of this user, configuration settings are automatically made, and documents, dossiers, and properties are created on the d.velop platform side.

4.6 Web front end

Users can operate all administrative and user interfaces using a current web browser (Chrome, Safari, Edge). The d.velop information management system is technically integrated as an iFrame. If you have decided in favor of an on-premises d.velop documents as your DMS, you will need a web-based client to enable the iFrame-based integration.

4.7 Authentication

You can use the options offered by the d.velop platform to authenticate users. The requirements for doing so are specified in the product description for the d.velop cloud platform. Authentication on the F&O side takes place according to Microsoft's standards.

4.8 Import/export

Customers have the option of exporting and importing the configurations created in F&O. They can use this option during a transport from a test system to a productive system, for example. It contains the settings or report parameters and document reference view. Requirements regarding export and import options are specified in the product description of the d.velop platform and the selected DMS.

4.9 Standard use cases

This section describes the standard use cases.

4.9.1 Document storage

The customer can stipulate which reports generated in F&O are exported to the d.velop platform in their configuration. They must stipulate which properties are exported with the report and which property constitutes the unique key so that this export takes place only once. The customer also has the option of defining exceptions regarding when a generated export should not be exported, such as when a pro forma document is concerned. The export takes place as an asynchronous transaction and is controlled by a periodically recurring batch job.

4.9.1.1 Support of output management systems

Output management systems are frequently used for document generation in order to create a better result in terms of corporate identity and design. Only the following output management systems are supported.

- SSRS (out of the box)
- MS Electronic Reporting
- Lasernet
- Dox42
- Docentric

4.9.2 Integrating and displaying an electronic dossier

In their configuration, the customer can stipulate the form in which the d.velop web client is to be embedded. It is embedded on the basis of a URL that can be enhanced and adapted by a specific value from the selected entity using placeholders. In this manner, the desired dossiers or document view for the selected entity are called up. This process is driven by a search. The customer can decide whether they want the embedding to take place using modal dialog or a new browser tab.

4.9.3 Connecting the accounts payable automation d.velop invoices

d.velop connect for Dynamics 365 F&O can be connected to d.velop invoices by default. It contains the following options.

4.9.3.1 Recognizing and using the adapter

d.velop invoices recognizes the d.velop connect for Dynamics 365 adapter configured in the d.velop platform as an ERP connection, and the adapter can be used by default there.

4.9.3.2 Master data synchronization

Depending on the configuration, the adapter can be used to provide master data from the F&O system that is required for invoice processing. This includes the data specified by the customer, such as

- Tenants
- Document types
- Vendors
- Currencies
- Content structures and finance dimensions
- Payment conditions

4.9.3.3 Transaction data synchronization

Depending on the configuration, the adapter can be used to provide transaction data from the F&O system that is required for invoice processing. This includes the data specified by the customer, such as

- Orders
- Purchase orders
- Goods receipts
- Goods receipt lines

4.9.3.4 Optional data synchronization configuration options

The customer can influence data synchronization.

- Disable vendor filtering
- Disable procurement category filtering
- Disable bank account data filtering
- Disable order filtering

4.9.3.5 Transferring invoices from d.velop invoices to D36 F&O

Customers can transfer invoices from d.velop invoices to the F&O system. The program automatically recognizes whether or not the invoice has a purchase order reference. Invoices without a purchase order reference are sent to the invoice journal. Invoices with a purchase order reference are sent to the outstanding vendor invoices. Here users can continue working with the invoices in the standard accounting system.

4.9.3.6 Financial dimensions

The customer can use up to 10 financial dimensions. They can also use custom financial dimensions for synchronizing data and transferring invoices.

4.9.3.7 Detailed functionalities in accounting when using d.velop invoices

When an invoice is transferred, the account structure validation from F&O is used. These settings are all optional and are described in detail in the documentation.

- Apply bank account from d.velop invoices on invoices
- Apply surcharges from purchase order that do not affect the invoice total
    - Apply existing prepayments when creating invoice
    - Apply purchase number on the invoice header when creating invoice
- Apply payment conditions from creditors or order in the background
- Apply payment ID from the Swiss QR-bill when creating invoice

- Perform tax regulation based on the invoice header if only one tax information is present
- Determine the amount basis (incl. or excl. VAT) for invoice creation through the journal
    - Disable control filtering
    - Disable the amount validation
- Use invoice header to inform about the buyer group of the purchase order
- Use invoice header to control automatic processing of Dynamics
- Use invoice header to skip amount validation
- Use invoice line for the intercompany company (for invoice journal invoices)
    - Apply main person responsible from purchase order

5 Technical requirements

The customer undertakes to operate a software version of his Dynamics 365 systems, which is supported by Microsoft. The version of the d.velop integration in Microsoft Dynamics 365 is supported by d.velop for 12 months after its release. d.velop reserves the right to restrict functionalities after expiry of the aforementioned 12 months. d.velop does not guarantee compatibility with older software versions of MS Dynamics 365 that are no longer supported by Microsoft.

The system requirements described in the documentation that d.velop provides to the customer in the service portal apply.

6 Limits

The limits described in the documentation apply.