Product Description
d.velop connect for Dynamics 365 Business Central

1 Summary

Below is a description of the functions and services of d.velop connect for Dynamics 365 BC (Business Central) (hereinafter referred to as the "product"). 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 BC is an interface that you can use to connect your Microsoft Dynamics 365 BC with your d.velop document management system (DMS), regardless of whether you use d.velop documents, d.velop documents (on premises) operated as a hybrid solution, or d.velop documents for Microsoft 365. This allows customers to store documents from their ERP software in their DMS.

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 Business Central

Microsoft Dynamics NAV has changed names many times, most recently to Microsoft Dynamics 365 Business Central; in this document, it is usually referred to as BC or the ERP system.

2.4 d.velop connect for Dynamics 365

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

3 Architecture

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

- ecm smart Connect from d.velop technology partner Konica Minolta
  This is an extension within the ERP system that provides the necessary functions and APIs for use within the ERP system in order to transfer documents created in the ERP system to d.velop connect for Microsoft Dynamics 365. The extension also enables documents to be viewed directly in the ERP system.
- Invoice cockpit from d.velop technology partner Konica Minolta
  This is an extension within the ERP system to display all incoming invoices in a list for the user of the ERP system. In addition, the extension includes the APIs needed to transfer the invoice data to the ERP system via d.velop connect for Microsoft Dynamics 365.
- d.velop connect for Microsoft 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 BC can be operated as an SaaS solution or as an application for an on-premises installation. Customers must choose the same operating form in which the ERP system is operated to ensure that the necessary web service endpoints can be reached. That means if the ERP system is operated in the cloud,

d.velop connect for Dynamics 365 BC 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 product provides configuration and business objects to the entire platform and can be used bidirectionally through additional apps. For example, this can be done using the connector d.velop connect for Microsoft SharePoint, which also enables seamless collaboration with d.velop documents for M365 (SharePoint online). It also enables standardized data exchange with d.velop invoices.

The ECM smart connect component is developed, maintained and operated by d.velop technology partner Konica Minolta and is included in the d.velop connect for Dynamics 365 license. In combination with d.velop invoices, the Konica Minolta invoice cockpit must also be purchased and serves as an integrated invoice monitor in BC. In addition, the invoice cockpit extension contains the receipt points (APIs) needed to transfer the invoice objects and workflow stats from d.velop invoices to the ERP system. For an on-premises installation of BC, the customer must purchase what are known as "granules" from the ERP partner for both ecm smart connect and the invoice cockpit. "Granules" are a Microsoft concept that open up protected namespaces in the BC system, where the applications can be operated independently of changes made by other implementation partners.

4 Scope of functions

The product contains the following range of functions:

4.1 Deliverables

d.velop connect for Dynamics 365 BC 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 Microsoft App Source app from Konica Minolta, which must be installed in BC. The app creates a workspace with the BC look and feel and provides configuration items and underlying functions that are described in greater detail below.

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 BC system and the d.velop platform. On the BC system side, an application user (including a defined security role) is connected with the Azure application and thus safeguards all access to the system. The necessary configuration is carried out by the customer's administrator.

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 BC 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 a BC operated on premises and an adapter operated on premises is also supported.

4.4 Reporting and analysis options

ecm smart connect 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 BC and the d.velop platform. On the BC side, authorizations are issued in the Azure Application API, and web services are

activated in BC itself which restrict access to the information required for the function. A service user (hereinafter referred to as the "user") with admin rights must be implemented 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 the customer operates an on-premises d.velop documents as the DMS, they 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 BC side takes place according to Microsoft's standards.

4.8 Import/export

Customers have the option of exporting and importing the configurations created in BC. 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

In their configuration, the customer can stipulate which reports generated in BC are exported to the d.velop platform. 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 export takes place as an asynchronous transaction and is controlled by a periodically recurring batch job.

4.9.2 Integrating and displaying an electronic dossier

In their configuration, the customer can stipulate the form in which the information management is to be embedded. It is embedded on the basis of a URL that can be extended 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 a new tab or a box.

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The view can be configured/integrated in the following pages of the ERP system:

Page no.	Page name
21	Customer Card
26	Vendor Card
30	Item Card
41	Sales Quote
42	Sales Order
43	Sales Invoice
44	Sales Credit Memo
49	Purchase Quote
50	Purchase Order
51	Purchase Invoice
52	Purchase Credit Memo
130	Posted Sales Shipment
132	Posted Sales Invoice
134	Posted Sales Credit Memo
136	Posted Purchase Receipt
138	Posted Purchase Invoice
140	Posted Purchase Credit Memo
438	Issued Reminder
507	Blanket Sales Order
509	Blanket Purchase Order
6630	Sales Return Order
6640	Purchase Return Order
6645	Purch Return Order Arc Subform
6650	Posted Return Shipment
6660	Posted Return Receipt
5005273	Issued Delivery Reminder

4.9.5 Connecting the accounts payable automation d.velop invoices

d.velop connect for Dynamics 365 BC can be connected to d.velop invoices. It contains the following options.

4.9.5.1 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 there as standard.

4.9.5.2 Master data synchronization

Depending on the configuration, the adapter can be used to provide master data from the BC system that is required for invoice processing. This includes data such as:

- Tenants
- Vendors
- Currencies
- Financial dimensions

- G/L accounts
- Tax codes
- Payment terms

4.9.5.3 Transaction data synchronization

Depending on the configuration, the adapter can be used to provide transaction data from the BC system that is required for invoice processing. This includes data such as:

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

4.9.5.4 Optional data synchronization configuration options

The customer can influence data synchronization.

- Blocked data, such as dimensions or accounts payable, not to be transferred to d.velop invoices
- Syncing of further posting types to d.velop invoices
- No transfer of comment lines for purchase orders to d.velop invoices
- Restricting the synchronization period for purchase orders and goods receipts

4.9.5.5 Transferring invoices from d.velop invoices to D365 BC

Customers can transfer invoices from d.velop invoices to the Business Central system. The program automatically recognizes whether or not the invoice has a purchase order reference.

4.9.5.6 Financial dimensions

The customer can use up to eight financial dimensions.

4.9.5.7 Detailed functionalities in accounting when using d.velop invoices

When the invoice is transferred, the validation of the incoming invoice/credit from Business Central is applied. These settings are all optional and are described in detail in the documentation.

- Apply bank account from d.velop invoices on invoices
- Transfer surcharges from d.velop invoices to BC
- Apply purchase number on the invoice header when creating invoice
- Transfer the payment terms key from d.velop invoices to BC
- Apply payment ID from the Swiss QR-bill when creating invoice
- Pre-assign a quantity of 1 if no quantity is transferred from d.velop invoices

5 Technical requirements

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.