



# Dynamics 365 Business Central, on-premises Licensing Guide

August 2024



This licensing guide was updated to reflect licensing updates and/or new online service offerings as of August 2024. Reference the [Appendix D: Change Log](#) for details.

Business Central	Type of Change	New offer or Change
Team Member Tables	Added	<ul style="list-style-type: none"><li>Table 8909 Email Related Record</li></ul>

# Contents

- How to buy Business Central, on-premises ..... 1**
  - Licensing Programs..... 1
  - International Availability..... 1
- How to License Business Central, on-premises ..... 2**
  - Licensing Overview ..... 2
    - Full User Access Licenses ..... 2
    - Additional User Access Licenses..... 2
    - Types of Access Licenses..... 3
  - Deploying a Self-Managed Solution in an IaaS Environment..... 3
  - Subscription Licensing..... 4
- Assigned Application Licensing ..... 4**
  - Business Central Essentials ..... 4
  - Business Central Premium ..... 5
- Assigned Additional User Licensing..... 6**
  - Device License ..... 6
  - Team Members License..... 6
- Additional User Licenses ..... 7**
- Configuration Components..... 8**
- \*Not included for subscription customers..... 8**
- Additional Licensing Requirements ..... 8**
  - Minimum License Purchase Requirements..... 9
  - Licensing Requirement for External Users ..... 9
  - Multiplexing ..... 10
  - Dual Use Rights..... 10
  - Customizing the Business Central, on-premises Solution..... 11
  - Other Product Licenses ..... 11
  - Microsoft Power BI in Dynamics 365..... 11
  - Licenses for Additional Software ..... 11
- Appendix A: Team Members Included Tables ..... 13**
- Appendix B: Licenses and Definitions ..... 17**
- Appendix C: Additional Resources..... 18**
- Appendix D: Change Log..... 19**

## Using This Guide

Use this guide to improve your understanding of how to license Microsoft Dynamics 365 Business Central 365 on-premises under the Perpetual Licensing or the Subscription Licensing model. Dynamics 365 Business Central, on-premises fits the needs of midsize businesses with core business needs. It helps organizations connect their financials, sales, purchase, inventory, projects, service, and operations.

For brevity and ease of reading, the Dynamics 365 Business Central application name is shortened, to exclude "Dynamics 365".

This document applies for users with a Dynamics 365 Business Central license but is not a legally binding licensing rights document. It also does not supersede or replace any of the legal documentation covering use rights. Specific product license terms are detailed in the Software License Terms (SLT) document, which is available at <https://go.microsoft.com/fwlink/?linkid=2009120&clid=0x409>.

For help determining the right technology solution for your organization, including the license requirements for a specific product or scenario, consult with your Microsoft Dynamics Certified Partner.

This document does not apply to Microsoft Dynamics AX, Microsoft Dynamics GP, Microsoft Dynamics NAV, Microsoft Dynamics SL, Microsoft Dynamics 365 for Operations, on-premises, or Microsoft Dynamics 365 (On-Premises). [Appendix C](#) provides a link to the applicable licensing guides for these other Dynamics on-premises products.

## How to buy Business Central, on-premises

### Licensing Programs

Business Central, on-premises licenses are only available through the Dynamics Price List (DPL) and licensed through one of two licensing models:

- Perpetual Licensing
- Subscription Licensing

There are significant licensing differences between Perpetual Licensing and Subscription Licensing, as illustrated below. [Appendix B](#) provides a detailed definition of perpetual and subscription licensing.

	Perpetual	Subscription
Self-managed, on-premises deployment	•	
Self-managed, hosted deployment (IaaS)*	•	
Partner-managed, on-premises deployment		•
Partner-managed, partner-hosted deployment (SaaS)		•
Own your licenses	•	
Lease your licenses		•
Per User access licenses	•	•

\*Requires an active Customer Service and Support Plan (e.g., Enhancement or Advantage Plans)

### International Availability

Country, language, and localization availability for Business Central, on-premises is available [here](#).

# How to License Business Central, on-premises

## Licensing Overview

Business Central, on-premises applications are assigned licenses that are dedicated to a named user or device.

- User licenses, which grant access for a named user, regardless of the device used.
- Device licenses, which grant access via certain devices, using either device or individual logins.

Assigned licenses provide a named user or dedicated shared device with access to applications. Full-access user licenses are the most common, but assigned licenses include several options for additional users, usually with limited functionality.

### Full User Access Licenses

Full users are named users whose work requires use of the feature rich business applications functionality.

- **Full users:** receive unrestricted direct or indirect access to all the functionality in the licensed server software including setting-up, administering, and managing all parameters or functional processes across your solution. Full users perform tasks across your solution using all the functionality included with either the Essentials or Premium user and require more write capabilities than those available to Team Members. Every Essentials user requires an Essentials user license, and every Premium user requires a Premium user license.

### Additional User Access Licenses

Additional users often represent a large percentage of users in an organization and may consume data or reports from line of business systems, complete light tasks like time or expense entry or be heavier users of the system, but not require full user capabilities.

- **Device:** grants access to Business Central, on-premises from a device. Any user may access a licensed device without the need for a separate user CAL. The Device CAL has restricted functionality but may make more economic and administrative sense if its organization has employees who share devices, such as for shift-based work.

A user or device licensed with a CAL may access any number of instances of Business Central, on-premises Server or earlier versions of the software running on the organization's servers.

Device licenses may be created with a login for the device (such as "Warehouse Computer" and a shared password) or individual logins (each user's personal credentials), depending on the application and license:

- Device logins: individual usage cannot be tracked
- Individual logins: no separate user license required

Note: Since Business Central, on-premises may be licensed with a user or device CAL, only the user or device requires a CAL but not both. If the user of a device is licensed with a CAL, then the device does not need a device CAL. Likewise, if the device is licensed with a device CAL, then the user does not need a CAL. Customers can mix both user and device CALs.

- **Team Members:** This license, also assigned to a named user, is for users who are not tied to a particular function but require read-only access and basic functionality. Team Members may consume data or reports from line of business systems, complete light tasks but don't require full user capabilities. The Team Members license entitles the user to perform Team Members user tasks across your Business Central solution using the same functionality footprint available to the

Essentials and Premium users. Every Team Members user requires a Team Members user license. Note: This “Dynamics 365 Business Central Team Member” license should not be confused with the similarly named “Dynamics 365 Team Member” license, which does not apply to Business Central.

## Types of Access Licenses

Business Central, on-premises offers two types of access licenses: [Named Client Access Licenses \(CALs\)](#), only available under the **Perpetual Licensing** model, and [User Subscription Access Licenses \(SALs\)](#), only available under the **Subscription Licensing** model.

Note, Essentials and Premium users may not be mixed and matched. Customers must license Essentials or Premium users but not both. Customers may move their users from Essentials to Premium if they move all users at one time. Contact your ROC for more information.

## Perpetual Licensing

With Perpetual Licensing, you license the desired solution functionality and access to that functionality is secured by licensing access licenses.

The Essentials user gives customers all setup utilities, provides usage rights to core financial, sales and opportunity, supply chain and inventory, and project management functionalities. The Premium user includes everything in the Essentials user, plus service management and manufacturing.

Under Perpetual Licensing, customers license full access to the solution with full named user CALs and limited access with Team Members users and Device CALs. When assigning security rights to users, the system administrator will designate each user as a full, Team Members, or a device user.

Customers must acquire and assign an access license to each user that accesses Business Central, on-premises directly or indirectly.

## Deploying a Self-Managed Solution in an IaaS Environment

Customers with an active enhancement plan have the licensing flexibility needed to manage their own solution, but deploy it in an IaaS environment, such as Microsoft Azure. Through the License Mobility rights included with the enhancement plan, customers may reassign their solution licenses to:

- Any servers running physical operating system environments (OSEs) or virtual OSEs dedicated to the customer and located within the same Server Farm as often as needed, or
- From one Server Farm to another, but not on a short-term basis (i.e., not within 90 days of the last assignment).

Business Central, on-premises may be deployed in a multitenant environment where, by definition, the OSE is not dedicated to the customer. In such case, customers are required to install their license key in the tenant database. This exception to the license mobility requirement that the OSE be dedicated to the customer only applies to the Business Central, on-premises software and not to any of the other Microsoft components required for their solution to run.

SQL Server Runtime use licenses, received via Order Central, do not qualify for license mobility rights. If deploying Business Central, on-premises in an IaaS environment, customers will be required to license SQL through other licensing programs.

“Server Farm” means a single data center or two data centers each physically located:

- In a time zone that is within four hours of the local time zone of the other (Coordinated Universal Time (UTC) and not DST), and/or
- Within the European Union (EU) and/or European Free Trade Association (EFTA).

## Subscription Licensing

With Subscription Licensing, customers subscribe to the rights to use Microsoft software and services instead of owning them. Subscription licensing are full month terms that may be cancelled at the end of the term without penalties.

To choose the appropriate SAL type, determine the functionality you require for the solution. If you require only the functionality included with the Essentials user, license the Essentials user SALs (or a combination of the Essentials User, Team Members user and/or device SALs). If you require the functionality of the Premium user, then license the Premium user SALs (or a combination of the Premium user SALs, Team Members user and/or device SALs).

## Assigned Application Licensing

With Business Central, on-premises, you must license at least one of Essentials or Premium users. Additional access to the service functionality by other users is licensed with Team Members. Business Central functionality is delivered through the Essentials or Premium user.

## Business Central Essentials

For more sophisticated processes, yet simple enough to be managed in one solution, **Essentials** provides:

- (i) Financial management
- (ii) Sales and opportunity management
- (iii) Supply chain and inventory management
- (iv) Project management

## Essentials Functionality

Financial Management		
Account Schedules	Budgets	Fixed Assets
Allocations	Cash Flow Forecast	Multiple Currencies
Bank Account Management	Check Writing	Payment Handling
Bank Reconciliation	Consolidation	Responsibility Centers
Basic General Ledger	Deferrals	Unlimited Dimensions
Basic XBRL	Electronic Payment/Direct Debits <sup>1</sup>	
Advanced Financial Management		
Cost Accounting	<b>Inter-company Postings</b>	
Artificial Intelligence <sup>2</sup>		
Cash Flow Forecast	Inventory Forecast	Sales Forecast
Image Recognition	Late Payment Prediction	
Customer Relationship Management		
Business Inbox for Outlook	Contact Management	Opportunity Management
Campaign Management	Dynamics 365 Sales Integration <sup>3</sup>	Relationship Management
Campaign Pricing	Email Logging	Task Management
Contact Classification	Interaction / Document Management	
E-Services		
Document Exchange Service	Online Map	Tax. Reg. No. Validation Service (EU) <sup>1</sup>
Document Management, Document Capture	PayPal	

Human Resources Management		
Basic Human Resources		
Project Management		
Basic Resources	Job Quotes	Project Management Jobs
Capacity Management	Multiple Costs	Time Sheet
Supply Chain Management		
Alternative Order Addresses	Item Charges	Sales Invoice Discounts
Alternative Ship-To Addresses	Item Cross References	Sales Invoicing
Alternative Vendors	Item Substitutions	Sales Line Discounting
Assembly Management	Item Tracking	Sales Line Pricing
Basic Inventory	Location Transfers	Sales Order Management
Basic Payables	Multiple Locations	Sales Return Order Management
Basic Receivables	Order Promising	Sales Tax/VAT <sup>4</sup>
Calendars	Purchase Invoicing	Shipping Agents
Cycle Counting	Purchase Line Discounting	Standard Cost Worksheet
Drop Shipments	Purchase Line Pricing	Stock keeping Units
Item Attributes	Purchase Order Management	Vendor Catalogue Items
Item Budgets	Purchase Return Order Management	
Item Categories	Requisition Management	
Warehouse Management and Inventory		
Automated Data Capture System	Pick	Warehouse Shipment
Bin Set-Up	Warehouse Management Systems	
Internal Picks and Put Aways	Warehouse Receipt	
Other		
Analysis Reports	Job Queue	User Management
Change Log	Notifications	User Tasks
Embedded Power BI	Reason Codes	Word reporting/Document reporting
Extended Text	Retention Policies	Workflow
Intrastat <sup>1</sup>	Unlimited Companies	

<sup>1</sup>For feature availability in your region, consult <https://docs.microsoft.com/en-us/dynamics365/business-central/about-localization>

<sup>2</sup>Requires Intelligent Edge or Azure Machine Learning subscription. Image Recognition is available in US, CA, UK.

<sup>3</sup>Requires Dynamics 365 Sales license

<sup>4</sup>Support for Sales Tax or VAT depending on country deployment

## Business Central Premium

**Premium** includes the Essentials license capabilities and adds key functionality for manufacturing and service order management:

- (i) Service management
- (ii) Manufacturing

### Premium Functionality

Service Order Management		
Planning and Dispatching	Service Item Management	Service Price Management
Service Contract Management	Service Order Management	
Manufacturing		
Agile Manufacturing	Finite Loading	Sales and Inventory Forecasting
Basic Capacity Planning	Machine Centers	Version Management
Basic Supply Planning	Production Bill of Materials	
Demand Forecasting	Production Orders	



## Assigned Additional User Licensing

### Device License

The **Business Central Device** license is a limited license with a subset of Business Central capabilities. This device allows multiple users to use a licensed device to operate a point-of-sale device, shop floor device, or warehouse device. A single device can provide any of the following functionality in any combination. Device CALs do not include all the capabilities of the full user.

The Dynamics 365 Business Central Device license is compatible with versions v16 and later, it is not compatible with versions prior to v16. For additional information on the Dynamics 365 Business Central Device license, see [here](#).

Device SL	Business Central Device Functionality
Point of Sale	One device located in the Commerce location, used by any individual, for completing customer facing sales of goods or services transactions
Store Manager	One device located in the Commerce location, used by any individual, dedicated to performing the following tasks solely for that Commerce location. Commerce location or Store means a physical location (static or itinerant) operated by you when closing goods or services transactions with customers: <ul style="list-style-type: none"> <li>• Managing and replenishing inventory</li> <li>• Balancing cash registers and processing daily receipts</li> <li>• Configuring and maintaining menu options displayed by the ISV Devices</li> <li>• Purchasing supplies and services required to run the Commerce Location operations</li> <li>• Managing Commerce Location staff</li> <li>• Processing reports required to analyze and manage Commerce Location results</li> <li>• Managing master data related to Commerce Location operations</li> </ul>
Shop Floor	One device used for manufacturing shop-floor functions. Shop Floor Functions: <ul style="list-style-type: none"> <li>• Clock-in and clock-out</li> <li>• Starting and finishing production jobs (including project activities carried out on the shop floor)</li> <li>• Reporting progress</li> <li>• Materials consumption and completion</li> <li>• Viewing documents and instructions related to production jobs</li> <li>• Viewing worker holiday balances</li> </ul>
Warehouse Device	One device used for Warehousing functions: <ul style="list-style-type: none"> <li>• Receiving</li> <li>• Putting-away</li> <li>• Doing internal stock transfers</li> <li>• Picking, packing</li> <li>• Capturing product attributes</li> <li>• Shipping goods plus performing inventory count checks in the context of a warehouse management system</li> <li>• Posting output and materials consumption against production orders when captured as transfers of raw materials and finished goods between a warehouse and a production line (all other types of transactions are excluded)</li> </ul>

### Team Members License

The Team Members license is a license designed for users who are not tied to a particular function, but who require basic Business Central, on-premises functionality.

**Team Members** get restricted access to the ERP Solution to complete only the following tasks:

- 'Read' access to any data contained in the ERP solution; and
  - 'Write' access to a maximum of 3 table objects
- Note, tables described in [Appendix A](#) do not count towards the 3 table objects.

Team Members users are not authorized to 'write' directly or indirectly to the following tables:

Table Number	Table Name	Table Number	Table Name
17	General Ledger Entry	2000000005	Permission
2000000004	Permission Set	2000000053	Access Control

Writing the transactions of a Team Members user to a temporary table then having a full user (or a system process) post those transactions to table 17 is an example of indirect write access to table 17, which is not permitted.

Transactions created by a Team Members user are not considered indirect write access if:

- The transaction is needed by a full user as in an input to perform their job function, and
- Transactions are processed individually (not in a batch).

The Team Members user included tables should allow you to perform the following tasks:

### Sales

- Create a customer with relevant contact details, based on a template or from scratch
- Create an opportunity for an existing campaign, and relate it to sales quotes or orders

Topic	Task
Quotes	Create a sales quote for an existing or a new customer
	Send a sales quote by email, send it for approval, or convert it to a sales order
Orders	Create a sales order for an existing or a new customer
	Send a sales order for approval

### Purchase

- Create a vendor with relevant contact details, based on a template or from scratch
- Create a purchase order for an existing or a new vendor
- Send a purchase order for approval

### Other Tasks

- Fill in an existing timesheet
- Perform document capture - expense reporting by scanning an invoice to create an incoming document

### Role Centers

- Use the charts on two role centers: order processor (for sales scenarios) and purchasing agent (for purchase scenarios)

However, if your specific deployment requires more than 3 tables not part of the included range to fulfill these tasks, a full user will be required. Any access beyond these limitations requires full user access.

When assigning security rights to users, the system administrator will designate them as full users, Team Members, or device users.

## Additional User Licenses

Business Central licensed tenants include:

- 1 license for an External Accountant user
- 1 license for a System Administrator user

External Accountant licenses are for the sole purpose of providing supplemental professional accounting or bookkeeping services related to the auditing process. System Administrator license is for an employee of your Microsoft Dynamics partner to manage your application and provide support.

Note: Licenses for additional software required to run the solution, such as Microsoft Windows Server, Microsoft SQL Server, and Microsoft SharePoint Server, are not included with the Essentials, the Premium, or the Team Members licenses. You need to license any additional software according to their applicable license terms. See [Licenses](#) for Additional Software for more information.

## Configuration Components

Configuration components are included for both Essentials and Premium users. If customers require additional configuration components, they may purchase additional objects in packs of 100 (or packs of 10 for Tables) from the Dynamics Price List.

Essentials and Premium licenses include the following assignable configuration components. Note, Premium licenses include an extra ten Codeunits.

Assignable objects can be assigned any object IDs between 50,000 – 99,999; object IDs can be assigned through the Manage Custom Area Object screen on the Customer Summary page in PartnerSource Business Center.

Customization Objects (Assignable) – Essentials and Premium		
Codeunits (10)	Reports (100)	Tables (10)
Pages (100)	Queries (100)	XML Port (100)

Premium licenses also include additional Codeunits (10)

Configuration Objects (Assignable) – Premium only
Codeunits (10)

Essentials and Premium licenses also include the following pre-assigned configuration components; these objects have pre-assigned object ID's as shown in the table below and cannot be re-assigned to other ID numbers.

Customization Objects (Pre-assigned) – Essentials and Premium	
Codeunits (100)*	Pre-assigned range 50,000-50,099
Pages (100)	Pre-assigned range 50,000-50,099
Queries (100)	Pre-assigned range 50,000-50,099
Reports (100)	Pre-assigned range 50,000-50,099
Tables (10)	Pre-assigned range 50,000-50,009
XML Port (100)	Pre-assigned range 50,000-50,099

\*Not included for subscription customers

## Additional Licensing Requirements

### Universal Code License Fees

The Business Central Universal Code initiative is intended to encourage the use of modern and cloud-supported code in customizing Business Central implementations. This supports customers' migrations to and use of Dynamics 365 Business Central online, and increased availability of the right apps on Microsoft AppSource to meet individual customer requirements.

Starting October 3, 2022, new Dynamics 365 Business Central on-premises customers and customers transitioning to Dynamics 365 Business Central on-premises (e.g., from NAV/GP/SL/etc.), in either case with a Dynamics 365 Business Central on-premises implementation that uses code customizations that are not 'universal code' compatible, must license one or both of the 'universal code' modules. However, Business Central on-premises implementations prior to October 3, 2022 (based on the first registration date as reflected in the Business Central implementation's license key), are exempt from the universal code licensing requirement and do not require purchase of these modules. This license fee for use of non-'universal code' in Dynamics 365 Business Central on-premises applies to code modifications associated with both repeatable solutions (ISV apps) and individual customer modifications (PTES).

The following are the universal code modules:

- Module "Implemented code is not in extensions"  
If the code customization includes base application modifications that are not provided within extensions, this module must be licensed.
- Module "Implemented code is not cloud-optimized"  
If the extension's target is set to "OnPrem", this module must be licensed. Extensions supporting both Dynamics 365 Business Central on-premises and Dynamics 365 Business Central online should be set to "Cloud".

Licensing fees for these modules are based on the number of licensed full users and are charged annually covering a 12-month period for perpetual licenses and are charged monthly covering a 1-month period for subscription licenses.

Learn more at: <http://aka.ms/BCUniversalCode>

## Minimum License Purchase Requirements

There are no minimum license purchase requirements. Note, customers may not mix and match Essentials and Premium users. Customers must license either Essentials or Premium users, not both.

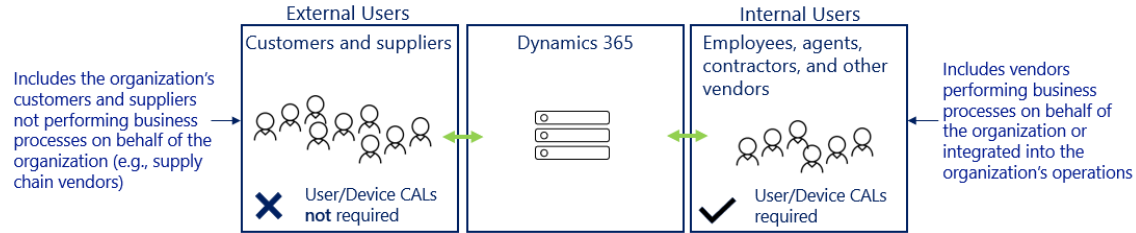
## Licensing Requirement for External Users

Your customers are external users. Essentials and Premium licenses include the rights for an unlimited number of external users to access the ERP solution without the need for individual Access Licenses as long as the following two restrictions are met:

- External users cannot use any clients provided by the Business Central, on-premises, such as the Business Central, on-premises Windows client, the Business Central, on-premises Web client, the Business Central, on-premises for Windows, the Business Central, on-premises for iPad or iPhone app, or the Business Central, on-premises for Android Tablet or Phone app.
- External user access does not extend to the customer or the customer's affiliate's contractors, vendors, or agents providing business processes on the customer's behalf or using Dynamics 365

to manage any portions of their business. In this sense, the customer may not use Dynamics 365 to provide business process outsourcing services to its clients.

Your system administrator designates external users in the user table by assigning such users an external user designation.



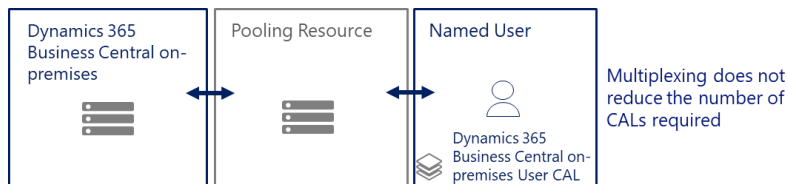
## Multiplexing

Multiplexing refers to the use of hardware or software that a customer uses to pool connections, reroute information, or reduce the number of devices or users that directly access or use Business Central, on-premises Server. Multiplexing does **NOT** reduce the number of licenses of any type required to access the Business Central, on-premises Server. Any user or device that accesses Business Central, on-premises Server—whether directly or indirectly—must be properly licensed.

Business Central, on-premises licenses are required for users or devices that directly input, query, or view data from the Business Central, on-premises Server. Similarly, Business Central, on-premises licenses are required for users or devices that input data into, query, or view data from Business Central, on-premises Server through a pooling device. Pooled connections use a non-interactive user account in Business Central, on-premises that can access the system but only via the web service layer. Internal users and devices accessing Business Central, on-premises data indirectly through a portal or via an API to a separate software such as Microsoft Outlook must also be properly licensed, regardless of if they are set up as a Business Central, on-premises user in the server software. For example:

- Internal users and devices access Business Central, on-premises data indirectly through a third-party application must still be properly licensed for Business Central, on-premises
- Users or devices that access the software files, data, or content provided by the product that is made available through an automated process require Business Central, on-premises licenses
- The number of tiers of hardware or software between the Business Central, on-premises Server and the users or devices that ultimately use data, software, or functionality does not affect the number of licenses required.

For additional information about multiplexing refer to the Microsoft Volume Licensing [Brief Multiplexing-CAL Requirements](#). Note, multiplexing does not reduce the number of user licenses required.



## Dual Use Rights

One of the advantages of Dynamics 365 is dual use rights. This allows customers the option to deploy the server software either in Microsoft's cloud or in a private on-premises or partner-hosted cloud. In some cases, customers may want to deploy both types of instances simultaneously. This might be done to help

with migrating a Dynamics 365 on-premises deployment to Dynamics 365, running private Dev/Test deployments in Microsoft Azure.

Dual Use Rights convey Dynamics 365 Business Central, on-premises server license access rights to most Dynamics 365 SLs (cloud). Dynamics 365 Business Central CALs (on-premises) have no reciprocal rights to access functionality provided exclusively to Dynamics 365 SLs, nor do Dual Use Rights imply equivalent capabilities between Dynamics CALs and Dynamics 365 SLs.

Users or devices licensed with Dynamics 365 User Subscription Licenses (User SLs) have use rights equivalent to a CAL for the purpose of accessing on-premises functionality. The Dynamics 365 Business Central, on-premises server license is included with the SLs. Licenses for all supporting servers (e.g., Windows Server and CAL(s)) must be obtained separately.

Dynamics 365 Business Central online SKUs	Dynamics 365 Business Central, on-premises SKUs
Dynamics 365 Business Central Essentials	Dynamics 365 Business Central Essentials
Dynamics 365 Business Central Premium	Dynamics 365 Business Central Premium
Dynamics 365 Business Central Team Members	Dynamics 365 Business Central Team Members
Dynamics 365 Business Central Device	Dynamics 365 Business Central Device

Dual Use Rights provide access to the most current version of Dynamics 365 Business Central on-premises. However, customers may use downgrade rights according to Business Central downgrade policy to deploy a qualifying server license.

Dual Use Rights included with Dynamics 365 SLs are non-perpetual and will expire when the cloud subscription expires.

## Customizing the Business Central, on-premises Solution

Customizing Business Central on-premises is done using the free tool Visual Studio Code together with the free AL extension. Your partner may license application objects as needed to modify the solution to your specific requirements.

## Other Product Licenses

### Microsoft Power BI in Dynamics 365

Business Central, on-premises users are not provided with any standalone or general-purpose Power BI license or use rights. Customers who require Power BI Pro will need to license and pay for it separately.

Business Central, on-premises include an option to embed Power BI content as a product feature but require users to subscribe to Power BI (free user or Power BI Pro depending on content) separately to configure access to this content. More details are available in [this article](#).

### Licenses for Additional Software

Licenses for other products required for the solution must be acquired separately in accordance with the applicable licensing requirements for these products.

Business Central, on-premises relies upon SQL Server as an enabling technology. Organizations must be properly licensed by purchasing the SQL Server and SQL CALs separately from the Business Central, on-premises license, to access the Business Central solution. SQL Server and SQL CALs have their own license terms and conditions.

Licenses for additional software that may be required for the solution—such as Microsoft Windows Server and Microsoft SharePoint Server—and their corresponding Access Licenses are not included with the Business Central, on-premises license. You must acquire any necessary licenses for these additional products under the licensing model for the particular product (which may be different than the model used for Business Central, on-premises). To learn more or acquire licenses for additional software, find and contact a Microsoft Volume Licensing partner via: <https://www.microsoft.com/Licensing/how-to-buy/how-to-buy.aspx>.

For more information about licensing Windows Server and SQL Server, refer to <https://www.microsoft.com/cloud-platform/default.aspx>.

## Appendix A: Team Members Included Tables

The following tables do not count towards the maximum of three permitted for Team Members in Business Central, on-premises.

Table #	Table Name	Date Added
18	Customer	Oct 2018
19	Cust. Invoice Disc.	Oct 2018
23	Vendor	Oct 2018
24	Vendor Invoice Disc.	Oct 2018
36	Sales Header	Oct 2018
37	Sales Line	Oct 2018
38	Purchase Header	Oct 2018
39	Purchase Line	Oct 2018
43	Purch. Comment Line	Oct 2018
44	Sales Comment Line	Oct 2018
51	User Time Register	Oct 2018
52	Batch Processing Parameter	Oct 2018
53	Batch Processing Parameter Map	Aug 2019
63	Account Use Buffer	Oct 2018
83	Item Journal Line	Aug 2019
97	Comment Line	Oct 2018
130	Incoming Document	Oct 2018
133	Incoming Document Attachment	Oct 2018
143	ECSL VAT Report Line Relation	Oct 2018
156	Resource	Aug 2019
167	Job	Aug 2019
186	Exch. Rate Adjmt. Ledg. Entry	April 2022
204	Unit of Measure	Aug 2019
210	Job Journal Line	Aug 2019
222	Ship-to Address	Oct 2018
224	Order Address	Oct 2018
225	Post Code	Oct 2018
227	VAT Registration Log Detail	Mar 2022
237	Job Journal Batch	Aug 2019
249	VAT Registration Log	Oct 2018
308	No. Series	Oct 2018
309	No. Series Line	Oct 2018
326	Tax Setup	Aug 2019
336	Tracking Specification	Oct 2018
337	Reservation Entry	Oct 2018
348	Dimension	Oct 2018
349	Dimension Value	Aug 2019
352	Table Default Dimension	June 2023
355	Dimension Ledger Entry	Oct 2018
356	Journal Line Dimension	Oct 2018
357	Document Dimension	Oct 2018
358	Production Document Dimension	Oct 2018
359	Posted Document Dimension	Oct 2018
361	G/L Budget Dimension	Oct 2018
370	Excel Buffer	Aug 2019
389	Service Contract Dimension	Oct 2018
402	Change Log Setup	Aug 2019
403	Change Log Setup (Table)	Aug 2019
404	Change Log Setup (Field)	Aug 2019
405	Change Log Entry	Oct 2018
443	IC Setup	April 2022

Table #	Table Name	Date Added
454	Approval Entry	Oct 2018
455	Approval Comment Line	Oct 2018
472	Job Queue Entry	Oct 2018
474	Job Queue Entry	Oct 2018
480	Dimension Set Entry	Oct 2018
481	Dimension Set Tree Node	Oct 2018
487	Business Chart User Setup	Oct 2018
700	Error Message	Jan 2023
701	Error Message Register	Oct 2020
725	Custom Address Format	Oct 2018
726	Custom Address Format Line	Oct 2018
728	Copy Item Parameters	Oct 2020
729	Copy Item Buffer	Oct 2020
730	Standard Address	Oct 2018
749	Date Lookup Buffer	Oct 2018
760	Trailing Sales Orders Setup	Oct 2018
762	Account Schedules Chart Setup	Oct 2018
763	Acc. Sched. Chart Setup Line	Oct 2018
770	Analysis Report Chart Setup	Oct 2018
771	Analysis Report Chart Line	Oct 2018
832	Workflows Entries Buffer	Oct 2018
852	Cash Flow Azure AI Buffer	Oct 2002
869	Cash Flow Chart Setup	Oct 2018
880	Excel Template Storage	Oct 2018
897	What's New Notified	Oct 2020
900	Assembly Header	Oct 2018
901	Assembly Line	Oct 2018
904	Assemble-to-Order Link	Oct 2018
906	Assembly Comment Line	Oct 2018
920	Res. Gr. Availability Buffer	Oct 2020
921	Item Turnover Buffer	Oct 2020
922	G/L Acc. Balance/Budget Buffer	Oct 2020
923	Customer Sales Buffer	Oct 2020
924	Vendor Purchase Buffer	Oct 2020
925	Item Availability Buffer	Oct 2020
926	G/L Acc. Balance Buffer	Oct 2020
927	Receivables-Payables Buffer	Oct 2020
928	Res. Availability Buffer	Oct 2020
929	Bank Account Balance Buffer	Oct 2020
930	Cash Flow Availability Buffer	Oct 2020
931	Service Item Trend Buffer	Oct 2020
932	Contract Trend Buffer	Oct 2020
933	Load Buffer	Oct 2020
950	Time Sheet Header	Oct 2018
951	Time Sheet Line	Oct 2018
952	Time Sheet Detail	Oct 2018
953	Time Sheet Comment Line	Oct 2018
954	Time Sheet Header Archive	Oct 2018
955	Time Sheet Line Archive	Oct 2018
956	Time Sheet Detail Archive	Oct 2018
957	Time Sheet Cmt. Line Archive	Oct 2018



Table #	Table Name	Date Added
959	Time Sheet Chart Setup	Oct 2018
1001	Job Task	Aug 2019
1002	Job Task Dimension	June 2023
1015	Job Entry No.	Aug 2019
1173	Document Attachment	Oct 2018
1236	JSON Buffer	Oct 2018
1306	User Preference	Aug 2019
1311	Mini Last Used Chart	Oct 2018
1313	Activities Cue	Mar 2022
1314	User Tours	Oct 2018
1315	Purch. Price Line Disc. Buff.	Aug 2019
1319	Sales by Cust. Grp.Chart Setup	Oct 2018
1430	Role Center Notifications	Aug 2019
1432	Net Promoter Score Setup	Oct 2018
1433	Net Promoter Score	Aug 2019
1436	Ess. Business Headline Per Usr	May 2020
1440	Headline RC Business Manager	Oct 2018
1441	Headline RC Order Processor	Oct 2018
1442	Headline RC Accountant	Oct 2018
1443	Headline RC Project Manager	Oct 2018
1444	Headline RC Relationship Mgt	Oct 2018
1445	Headline RC Administrator	Oct 2018
1446	Headline RC Team Member	Oct 2018
1447	Headline RC Prod. Planner	Oct 2018
1448	Headline RC Service Dispatch	Oct 2018
1458	RC Headlines User Data	May 2020
1470	Product Video Buffer	Oct 2018
1471	Product video Category	Aug 2019
1504	Workflow Step Instance	Oct 2018
1506	Workflow Table Relation Value	Oct 2018
1511	Notification Entry	Oct 2018
1514	Sent Notification Entry	Mar 2022
1518	My Notifications	Aug 2019
1519	Notification Context	Oct 2018
1522	Workflow Event Queue	Oct 2018
1523	Workflow Step Argument	Oct 2018
1524	Workflow Rule	Oct 2018
1530	Workflow Step Instance Archive	Oct 2018
1531	Workflow Step Argument Archive	Oct 2018
1542	Workflow Webhook Sub Buffer	Oct 2018
1550	Restricted Record	Oct 2018
1612	Office Admin. Credentials	Aug 2019
1660	Payroll Setup	Aug 2019
1661	Import G/L Transaction	Aug 2019
1662	Payroll Import Buffer	Aug 2019
1670	Option Lookup Buffer	Oct 2018
1701	Deferral Header	Oct 2018
1702	Deferral Line	Oct 2018
1803	Assisted Setup	Aug 2019
1808	Aggregated Assisted Setup	Oct 2018
1944	User Checklist Status	May 2024
2160	Calendar Event	Oct 2018
2161	Calendar Event User Config.	Aug 2019
2162	O365 C2Graph Event Settings	Aug 2019
2163	O365 Sales Event	Aug 2019
2190	O365 Sales Graph	Oct 2018
2609	Feature Key Buffer	Oct 2022
2611	Feature Dependency	Oct 2022

Table #	Table Name	Date Added
2650	Email Printer Settings	Oct 2020
2680	Data Search Result	Oct 2022
2681	Data Search Setup (Table)	Oct 2022
2682	Data Search Setup (Field)	Oct 2022
3905	Retention Policy Log Entry	Oct 2020
5050	Contact	Oct 2018
5051	Contact Alt. Address	Oct 2018
5052	Contact Alt. Addr. Date Range	Oct 2018
5053	Business Relation	Oct 2018
5054	Contact Business Relation	Oct 2018
5056	Contact Mailing Group	Oct 2018
5058	Contact Industry Group	Oct 2018
5061	Rlshp. Mgt. Comment Line	Oct 2018
5062	Attachment	Oct 2018
5065	Interaction Log Entry	Oct 2018
5072	Campaign Entry	Oct 2018
5075	Logged Segment	Oct 2018
5078	Segment History	Oct 2018
5080	To-do	Oct 2018
5085	Contact Duplicate	Feb 2020
5086	Cont. Duplicate Search String	Oct 2018
5092	Opportunity	Oct 2018
5093	Opportunity Entry	Oct 2018
5106	Document Dimension Archive	Oct 2018
5107	Sales Header Archive	Oct 2018
5108	Sales Line Archive	Oct 2018
5109	Purchase Header Archive	Oct 2018
5110	Purchase Line Archive	Oct 2018
5113	Contact Dupl. Details Buffer	Oct 2018
5123	Inter. Log Entry Comment Line	Oct 2018
5125	Purch. Comment Line Archive	Oct 2018
5126	Sales Comment Line Archive	Oct 2018
5127	Deferral Header Archive	Oct 2018
5128	Deferral Line Archive	Oct 2018
5150	Integration Page	Oct 2018
5151	Integration Record	Oct 2018
5152	Integration Record Archive	Oct 2018
5199	Attendee	Oct 2018
5200	Employee	Oct 2018
5201	Alternative Address	Oct 2018
5203	Employee Qualifications	Oct 2018
5205	Employee Relative	Oct 2018
5207	Employee Absence	Oct 2018
5214	Misc. Article Information	Oct 2018
5328	CRM Synch Status	Oct 2020
5330	Microsoft Dynamics 365 Connection Setup	Aug 2019
5373	CRM Full Synch. Review Line	Oct 2018
5374	CRM Synch Conflict Buffer	Oct 2018
5405	Production Order	Aug 2019
5406	Prod. Order Line	Aug 2019
5407	Prod. Order Component	Aug 2019
5468	Picture Entity	Oct 2018
5475	Sales Invoice Entity Aggregate	Oct 2018
5476	Sales Invoice Line Aggregate	Aug 2019
5477	Purch. Inv. Entity Aggregate	Aug 2019
5478	Purch. Inv. Line Aggregate	Aug 2019
5479	Journal Lines Entity Setup	Aug 2019

Table #	Table Name	Date Added
5480	Tax Group Buffer	Aug 2019
5481	Account Entity Setup	Aug 2019
5487	Balance Sheet Buffer	Oct 2018
5481	Account Entity Setup	Aug 2019
5488	Trial Balance Entity Buffer	Aug 2019
5489	Dimension Set Entry Buffer	Aug 2019
5495	Sales Order Entity Buffer	Oct 2018
5496	Purchase Order Entity Buffer	Mar 2022
5499	Aged Report Entity	Oct 2018
5503	Acc. Schedule Line Entity	Oct 2018
5400	Unit Group	June 2022
5504	Tax Area Buffer	Aug 2019
5505	Sales Quote Entity Buffer	Aug 2019
5507	Sales Cr. Memo Entity Buffer	Oct 2018
5509	Attachment Entity Buffer	Oct 2018
5510	Employee Time Reg Buffer	Oct 2020
5648	FA Allocation Dimension	Oct 2018
5720	Manufacturer	Aug 2019
5765	Warehouse Request	Oct 2018
5766	Warehouse Activity Header	Oct 2018
5767	Warehouse Activity Line	Aug 2019
5770	Warehouse Comment Line	Aug 2019
5772	Registered Whse. Activity Hdr.	Oct 2018
5773	Registered Whse. Activity Line	Oct 2018
5806	Contact Duplicate Search	Oct 2018
5809	Item Charge Assignment (Sales)	Oct 2018
5814	Inventory Period	Oct 2018
6304	Power BI User Configuration	Oct 2018
6306	Power BI Report Labels	Oct 2018
6307	Power BI Report Uploads	Oct 2018
6308	Power BI Ongoing Deployments	Oct 2018
6309	Power BI Service Status Setup	Oct 2018
6310	Power BI Customer Reports	Oct 2018
6505	Lot No. Information	Aug 2019
6550	Whse. Item Tracking Line	Oct 2018
7002	Sales Price	Oct 2018
7004	Sales Line Discount	Oct 2018
7007	Price Calculation Buffer	Oct 2020
7012	Purchase Price	Oct 2018
7014	Purchase Line Discount	Oct 2018
7135	Item Budget Dimension	Oct 2018
7206	CRM Company	April 2022
7207	CRM BC Virtual Table Config.	April 2022
7310	Warehouse Journal Batch	Oct 2018
7311	Warehouse Journal Line	Oct 2018
7312	Warehouse Entry	Oct 2018
7313	Warehouse Register	Oct 2018
7318	Posted Whse. Receipt Header	Oct 2018
7319	Posted Whse. Receipt Line	Oct 2018
7320	Warehouse Shipment Header	Oct 2018
7321	Warehouse Shipment Line	Oct 2018
7322	Posted Whse. Shipment Header	Oct 2018
7323	Posted Whse. Shipment Line	Oct 2018
7324	Whse. Put-away Request	Oct 2018
7325	Whse. Pick Request	Oct 2018
7326	Whse. Worksheet Line	Oct 2018
7331	Whse. Internal Put-away Header	Oct 2018
7332	Whse. Internal Put-away Line	Oct 2018

Table #	Table Name	Date Added
7351	Lot Bin Buffer	Oct 2020
7354	Bin	Oct 2018
7800	MS-Event Emitter Event Codes	Oct 2018
8400	Record Set Definition	Aug 2019
8401	Record Set Tree	Aug 2019
8450	Field Buffer	Oct 2018
8620	Config. Tmpl. Selection Rules	Oct 2018
8888	Email Outbox	Oct 2020
8889	Sent Email	Oct 2020
8890	Sent email for User	Oct 2020
8891	Email Outbox for User	Oct 2020
8900	Email Message	Oct 2020
8901	Email Error	Oct 2020
8903	Email Recipient	Oct 2020
8904	Email Message Attachment	Oct 2020
8909	Email Related Record	Aug 2024
9001	User Group Member	Aug 2019
9002	User Group Access Control	Aug 2019
9003	User Group Permission Set	Aug 2019
9004	Subscription Plan	Aug 2019
9005	User Plan	Aug 2019
9006	Plan Permission Set	Aug 2019
9007	User Group Plan	Aug 2019
9008	User Login	Aug 2019
9009	Permission Set Buffer	Oct 2018
9011	User Environment Login	May 2024
9050	Warehouse Basic Cue	Oct 2018
9051	Warehouse WMS Cue	Oct 2018
9052	Service Cue	Oct 2018
9053	Sales Cue	Oct 2018
9054	Finance Cue	Oct 2018
9055	Purchase Cue	Oct 2018
9090	Autocomplete Address	Oct 2018
9091	Postcode Service Config	Aug 2019
9144	Approvals Activities Cue	Oct 2020
9150	My Customer	Oct 2018
9151	My Vendor	Oct 2018
9152	My Item	Oct 2018
9153	My Account	Aug 2019
9176	Experience Tier Setup	Oct 2018
9177	Experience Tier Buffer	Oct 2018
9178	Application Area Setup	Aug 2019
9179	Application Area Buffer	Aug 2019
9180	Generic Chart Setup	Oct 2018
9222	Application User Settings	April 2022
9400	Media Repository	Aug 2019
9500	Email Item	Oct 2018
9501	Email Attachment	Oct 2018
9510	Email Parameter	Oct 2018
9852	Permission Buffer	Oct 2020
9888	SmartList Export Results	Oct 2020
9889	SmartList Import Results	Oct 2020
9994	API Data Upgrade	April 2022
99000850	Planning Assignment	Oct 2018
99008535	TempBlob	Aug 2019
2000000067	User Default Style Sheet	Oct 2018
2000000068	Record Link	Oct 2018
2000000073	User Personalization	Oct 2018

Table #	Table Name	Date Added
2000000075	User Metadata	Oct 2018
2000000080	Page Data Personalization	Oct 2018
2000000111	Session Event	Oct 2018
2000000159	Data Sensitivity	Aug 2019
2000000175	Scheduled Task	Aug 2019
2000000185	Tenant Media Thumbnails	Aug 2019
2000000226	Query Navigation	Oct 2020

## Appendix B: Licenses and Definitions

Dynamics 365 Licenses:	Written as:
Dynamics 365 Business Central Device	Device
Dynamics 365 Business Central Essentials	Essentials
Dynamics 365 Business Central Premium	Premium
Dynamics 365 Business Central Team Members	Team Members

### Definitions

**Client Access License**, (CAL) are licenses that permit one limited device, used by any user, to access the Dynamics 365 Business Central solution indirectly. Device means a single physical hardware system, dedicated to Customer's use, to which a License is assigned.

**License entitlements** are what the customers are entitled to run, and use based on the licenses acquired as described in the SLT.

**License keys** activate the Microsoft Dynamics software.

**Named CALs** are assigned on a "named user" basis, meaning each user requires a separate user License; named user licenses cannot be shared but an individual with a named user license may access the service through multiple devices.

**Perpetual Licensing:** software is licensed with permanent usage rights. Customers may use the licensed version of the software for as long as they choose. Perpetual Licensing is an option if customers prefer an upfront investment or want to manage their solution internally and will run the software on their premises (or, subject to license mobility rights, have it hosted by a third-party Infrastructure as a Service [IaaS] provider acting as their agent).

**Subscription Licensing:** license the use of software with non-perpetual rights, meaning customer can use the software only during the term of the agreement secured by periodic payments. This model lowers initial licensing costs and provides customers with the flexibility to increase or decrease subscription license counts from one subscription term to the next. Subscription Licensing can be used when customers want to have their ERP solution hosted and managed as Software as a Service (SaaS) by their partner or any third party. Alternatively, the software may be deployed on their premises, provided that their Business Central, on-premises partner provides day-to-day management services and maintains sole control over the solution.

**User SALs**, only available in the subscription Licensing model, grant individual users the right to access the application irrespective of the number of users simultaneously accessing the application. Like named CALs, a unique user SAL must be assigned to each individual user that will access the solution functionality. SALs are specific to an individual and cannot be shared.

## Appendix C: Additional Resources

Microsoft Dynamics 365	<a href="https://www.microsoft.com/dynamics/default.aspx">https://www.microsoft.com/dynamics/default.aspx</a>
Software License Terms (SLT)	<a href="https://www.microsoft.com/en-us/download/details.aspx?id=57274">https://www.microsoft.com/en-us/download/details.aspx?id=57274</a>
Dynamics on-premises Licensing Guides	<a href="https://partner.microsoft.com/en-us/asset/collection/licensing-guide-assets#/">https://partner.microsoft.com/en-us/asset/collection/licensing-guide-assets#/</a>
Support	<a href="https://docs.microsoft.com/en-us/dynamics/s-e/global/service-plans_205">https://docs.microsoft.com/en-us/dynamics/s-e/global/service-plans_205</a>

## Appendix D: Change Log

Page	Topic	Change	Action	Date
15	Team Member Included Tables	Added	<ul style="list-style-type: none"> <li>Table 8909 Email Related Record</li> </ul>	August 2024
8	Configuration Components	Updated	Added language to clarify which Configuration Components are pre-assigned and assignable.	January 2024
12-13	Team Member Included Tables	Added	<ul style="list-style-type: none"> <li>352 Table Default Dimension</li> <li>1002 Job Task Dimension</li> </ul>	June 2023
5	Business Central Essentials Functionality	Added	<ul style="list-style-type: none"> <li>Unlimited Companies</li> </ul>	April 2023
5	Business Central Essentials Functionality	Removed	<ul style="list-style-type: none"> <li>Unlimited Companies</li> </ul>	March 2023
12	Team Member Included Tables	Added	<ul style="list-style-type: none"> <li>700: Error Message</li> </ul>	January 2023
6	Device License	Added	Added Device License compatibility language	October 2022
13	Team Member Included Tables	Added	<ul style="list-style-type: none"> <li>2609 Feature Key Buffer</li> <li>2611 Feature Dependency</li> <li>2680 Data Search Result</li> <li>2681 Data Search Setup (Table)</li> <li>2682 Data Search Setup (Field)</li> </ul>	October 2022
8	Universal Code	Added	Added language for Universal Code License Fees	September 2022
14	Team Members Included Tables	Added	<ul style="list-style-type: none"> <li>5400: Unit Group</li> </ul>	June 2022
12,14	Team Members Included Tables	Added	<ul style="list-style-type: none"> <li>186: Exch. Rate Adjmt. Ledg. Entry</li> <li>443: IC Setup</li> <li>7206: CRM Company</li> <li>7207: CRM BC Virtual Table Config.</li> <li>9222: Application User Settings</li> <li>9994: API Data Upgrade</li> </ul>	April 2022
8	Essentials	Added	Added 100 pre-assigned Codeunits (range 50.000-50.099) for Essentials licenses	March 2022
12,13	Team Members Included Tables	Added	<ul style="list-style-type: none"> <li>227: VAT Registration Log Detail</li> <li>1313: Activities Cue</li> <li>1514: Sent Notification Entry</li> <li>5496: Purchase Order Entity Buffer</li> </ul>	
14	Team Members included tables	Updated	Removed localized tables. W1 Team Members tables are listed (see Appendix A).	October 2021

©2024 Microsoft Corporation. All rights reserved. This document is for informational purposes only. MICROSOFT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN THIS DOCUMENT. This information is provided to help guide your authorized use of products you license; it is not your agreement. Your use of products licensed under your license agreement is governed by the terms and conditions of that agreement. In the case of any conflict between this information and your agreement, the terms, and conditions of your agreement control. Prices for licenses acquired through Microsoft resellers are determined by the reseller.