

# Dynamics 365 Business Central

## Overview of Dynamics 365 Business Central 2019 release wave 2

Dynamics 365 Business Central provides a complete business application solution designed and optimized for SMB organizations. Since its launch in April 2018, Dynamics 365 Business Central has seen increasing adoption by organizations looking to digitally transform their businesses. In the October '18 update, we updated Business Central to include on-premises deployments as well. The latest version, the April '19 update, brought an update to Business Central that improves the productivity of users.

The independent software vendor (ISV) ecosystem is important for customers who want vertical or horizontal solutions for Business Central. We will accelerate this ISV ecosystem to begin moving new and existing customers to Business Central online. To achieve that goal, the following development pillars define the 2019 release wave 2 update:

- **Service fundamentals:** Laser focus on performance, reliability, supportability, and security is essential to ensure that service quality remains ahead of the growth in service usage. Accessibility, already in a strong position, must be preserved.
- **Modern client:** With the 2019 release wave 2, users access Business Central in the browser, Windows 10 desktop app, mobile apps on Android and iOS, or in Outlook. We accelerate our investment in speed and productivity features for the modern browser experience, achieving a major milestone in its transformation into a world-class desktop experience for new and expert users alike. The 2019 release wave 2 is the first version that does not include the Dynamics NAV Client connected to Business Central (also known as the Windows client). The modern clients now support so many productivity features that the Windows client is discontinued for Business Central going forward. The legacy Dynamics NAV client remains supported in the April '19 update and earlier versions in alignment with the support lifecycle.
- **Modern developer tools:** The 2019 release wave 2 is the first version that does not include the classic development environment (also known as C/SIDE). The modern developer experience based on Visual Studio Code with Azure DevOps, and an AL language that supports an extension-based approach to customization now supports developing large apps such as the base application from Microsoft, and so C/SIDE is discontinued for Business Central going forward. The classic development environment remains supported in the April '19 update and earlier versions in alignment with the support lifecycle.

- **Empower ISV acceleration:** The 2019 release wave 2 update delivers a set of features designed to simplify ISV development for new solutions and, specifically, for streamlining the migration from the source code customization model of Dynamics NAV to Business Central. The Dynamics NAV business has been driven by strong vertical ISV solutions, surrounded by add-on solutions. For the 2019 release wave 2 update, our focus will be on streamlining the path for ISVs to bring their solutions – and in turn their customers – to Business Central online.
- **Customer migration tools:** After enabling Dynamics NAV ISVs to bring their solutions to Business Central online, the next step is to simplify the journey for existing Dynamics SMB customers coming from Dynamics NAV, Dynamics GP, or Dynamics SL to migrate from their current on-premises solutions to Business Central online. A set of tools already exists; these will be enhanced with the 2019 release wave 2.

Limited extension to the Business Central online localizations is planned for the 2019 release wave 2 in order to prioritize the service fundamentals work ahead of expanding the service footprint. Additional partner-developed localizations will be added following the 2019 release wave 2.

## What's new and planned for Dynamics 365 Business Central

This topic lists features that are planned to release from October 2019 through March 2020. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released** (see [Microsoft policy](#)).

In the **General availability** column, the feature will be delivered within the month listed. The delivery date can be any day within that month. Released features show the full date, including the day of release.

### Application enhancements

We will continue to enhance the application through our focus on performance in the most used areas. The Business Central Ideas site continues to be a source for application enhancements.

Feature	Enabled for	Public preview	General availability
<a href="#">Cancel issued reminders and finance charge memos</a>	End users, automatically	August 2019	October 2019
<a href="#">Carry line descriptions to general ledger entries when posting</a>	End users, automatically	August 2019	October 2019

Feature	Enabled for	Public preview	General availability
<a href="#">Use the Copy document function even when some lines are blocked</a>	End users, automatically	August 2019	October 2019
<a href="#">Write larger item cross-reference numbers</a>	End users, automatically	August 2019	October 2019

## Application lifecycle management

Once partners have customers live on Business Central, there is an immediate need to be able to manage the lifecycle of the customer, the solution, provide support, manage updates, testing, and so on. We will continue our investment in expanding the scope of the tools available to partners.

Feature	Enabled for	Public preview	General availability
<a href="#">Support for technical upgrades</a>	Admins, makers, or analysts, automatically		October 2019
<a href="#">Ability to download a database backup file</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Improvements in update testing and preparation</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Multiple production environments</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">New option to report production outage in the Business Central Administration Center</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Support for performant data upgrade from C/AL tables to AL tables</a>	Admins, makers, or analysts, automatically	August 2019	October 2019

## Empower ISV acceleration

The Dynamics NAV business has been driven by strong vertical ISV solutions, surrounded by add-on solutions. For the 2019 release wave 2, our focus will be on streamlining the path for ISVs to bring their solutions – and in turn their customers – to Business Central online.

Feature	Enabled for	Public preview	General availability
<a href="#">Design for extensibility</a>	Admins, makers, or analysts, automatically	August 2019	October 2019

## Migrations to Business Central online

This area details our migrations to the Business Central online roadmap.

Feature	Enabled for	Public preview	General availability
<a href="#">Enhancements for customer migration tools</a>	Admins, makers, or analysts, automatically		October 2019

## Modern clients

We accelerate our investment in speed and productivity features for the modern browser experience, achieving a major milestone in its transformation into a world-class desktop experience for new and expert users alike.

Feature	Enabled for	Public preview	General availability
<a href="#">Add links to your navigation menu</a>	End users, automatically	August 2019	October 2019
<a href="#">Add notes and links to data</a>	End users, automatically	August 2019	October 2019
<a href="#">Easy access to a capability overview</a>	End users, automatically	August 2019	October 2019
<a href="#">Enhancements to Excel integration</a>	End users, automatically	August 2019	October 2019

Feature	Enabled for	Public preview	General availability
<a href="#">Full keyboard shortcut support</a>	End users, automatically	August 2019	October 2019
<a href="#">General user experience adjustments</a>	End users, automatically	August 2019	October 2019
<a href="#">Longer timeout period for the server connection</a>	End users, automatically	August 2019	October 2019
<a href="#">Modern clients only for Business Central</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Personalize actions and navigation on your Home page</a>	End users, automatically	August 2019	October 2019
<a href="#">Powerful filtering for reports</a>	End users, automatically	August 2019	October 2019
<a href="#">Resize columns with fewer clicks</a>	End users, automatically	August 2019	October 2019
<a href="#">Saving and personalizing list views</a>	End users, automatically	August 2019	October 2019
<a href="#">Switch between companies in your Business Inbox in Outlook</a>	End users, automatically	August 2019	October 2019
<a href="#">Customize a user profile without writing code</a>	End users, automatically	September 2019	October 2019
<a href="#">Filtering option fields by multiple values</a>	End users, automatically	September 2019	October 2019
<a href="#">Multitasking across multiple pages</a>	End users, automatically	September 2019	October 2019
<a href="#">Speed and agility of data entry</a>	End users, automatically	September 2019	October 2019

## Modern developer tools

For the 2019 release wave 2, Business Central retires the legacy development tool, C/SIDE, and development language, C/AL, replacing them with a modern solution based on Visual Studio Code, Azure DevOps, and an AL language that supports an extension-based approach to customization.

Feature	Enabled for	Public preview	General availability
<a href="#">Code documentation attributes</a>	Admins, makers, or analysts, automatically		October 2019
<a href="#">Convert tables from C/AL definitions to AL table definitions</a>	Admins, makers, or analysts, automatically		October 2019
<a href="#">Database insights made available in AL</a>	Admins, makers, or analysts, automatically		October 2019
<a href="#">Translating other extensions</a>	Admins, makers, or analysts, automatically		October 2019
<a href="#">Access modifiers</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Attach and debug next</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Base application delivered as AL applications</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Improved app dependency handling on build and deploy</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">More power to developers using Designer</a>	Admins, makers, or analysts, automatically	August 2019	October 2019

## Service fundamentals

Laser focus on performance, reliability, supportability, and security is essential to ensure that service quality remains ahead of the growth in service usage. Accessibility, already in a strong position, must be preserved.

Feature	Enabled for	Public preview	General availability
<a href="#">Lock-free number series</a>	End users, automatically	August 2019	October 2019
<a href="#">New Support Request option in the Business Central Administration Center</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Page background tasks</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Partners can enter support contact details in the Business Central Administration Center</a>	Admins, makers, or analysts, automatically	August 2019	October 2019
<a href="#">Surrogate keys</a>	Admins, makers, or analysts, automatically	August 2019	October 2019

Description of **Enabled for** column values:

- **End users, automatically** – These features include change(s) to the user experience for end users and are enabled automatically.
- **Admins, makers, or analysts, automatically** – These features are meant to be used by administrators, makers, or business analysts and are enabled automatically.
- **End users by admins, makers, or analysts** – These features must be enabled or configured by the administrators, makers, or business analysts to be available for their end users.

For a list of the countries or regions where Dynamics 365 business applications are available, see the [International availability guide](#).

## Application enhancements

### Overview

We will continue to enhance the application through our focus on performance in the most-used areas. We will continue to improve the application to make it easier for ISVs to build extensions on top of our applications. The Business Central Ideas site continues to be a source for application enhancements.

### Cancel issued reminders and finance charge memos

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

### Business value

You can quickly correct mistakes in the close-of-period work by canceling issued reminders or finance charge memos.

### Feature details

Reminders and finance charge memos are usually created in batches—for example, at the end of the month—to remind your customers of due or overdue invoices. If incorrect information is detected in this busy period, you must be able to quickly correct such errors by canceling issued reminders or finance charge memos.

### Tell us what you think

Help us improve Dynamics 365 Business Central by discussing ideas, providing suggestions, and giving feedback. Use the forum at <https://aka.ms/bcideas>.

### Thank you for your idea

Thank you for submitting [this idea](#). We listened to your idea, along with comments and votes, to help us decide what to add to our product roadmap.

### Carry line descriptions to general ledger entries when posting

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

When reconciling or auditing data such as expenses, it is useful to see the source document line description in the general ledger entries.

## Feature details

From the **General Ledger Setup** page, you can choose the **Source Description Posting Setup** action to define for sales, purchase, and service documents whether the line description text is carried to the resulting item ledger entries depending on the line type. Note that when you select to copy source line descriptions to the resulting entries, such G/L entries will also be grouped per document line.

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## Thank you for your idea

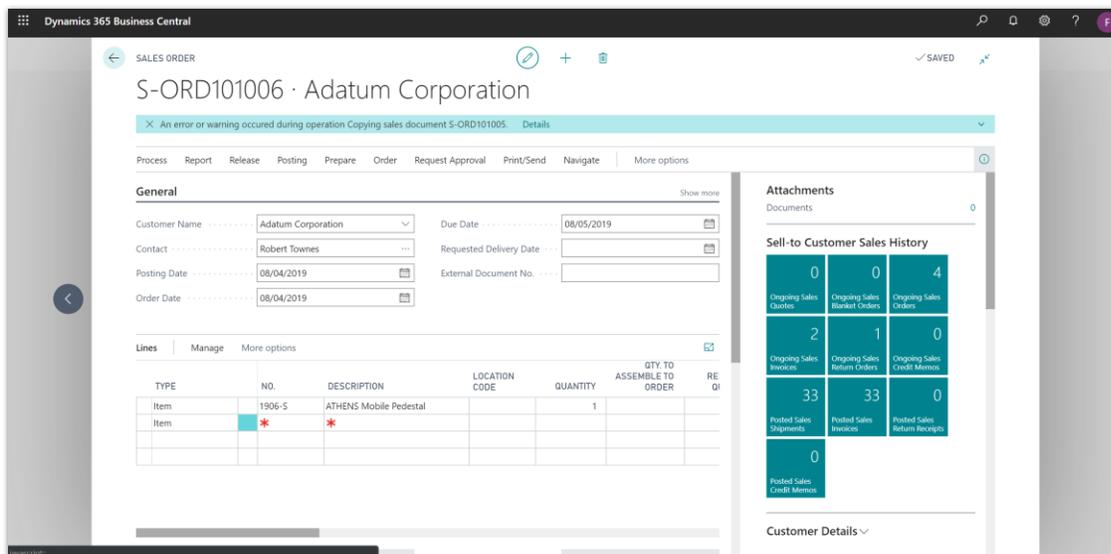
Thank you for submitting [this idea](#). We listened to your idea, along with comments and votes, to help us decide what to add to our product roadmap.

## Use the Copy document function even when some lines are blocked

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Feature details

When using the Copy document function to create new documents based on existing documents, you are now notified if any items or resources on the source document lines are blocked. The blocked document lines are excluded from the new document. The notification shows an overview of all document lines that are blocked in the source document.



*Notification of blocked item*

**Write larger item cross-reference numbers**

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

**Business value**

Vendor item numbers or bar codes are often more than 20 characters long. The fact that the **Cross-Reference No.** field can now hold 50 characters allows for faster and easier purchase processing when vendors' item numbers are converted to internal item numbers.

**Feature details**

When setting up or importing your item master data, you can now write larger numbers in the **Cross-Reference No.** field and use them on purchase document lines.

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## Thank you for your idea

Thank you for submitting [this idea](#). We listened to your idea, along with comments and votes, to help us decide what to add to our product roadmap.

## Application lifecycle management

### Overview

As partners move customers and solutions to the Business Central service, there is an immediate need for tools to manage both the customers and solutions. We are adding functionality to cover the complete lifecycle, first with focus on VARs/SIs, and subsequently with the focus on ISVs building Extensions for AppSource.

### Support for technical upgrades

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically		October 2019

### Feature details

Starting with the 2019 release wave 2 update, you can use the PowerShell cmdlet `Invoke-NAVApplicationDatabaseConversion` to move a database from version 14 to the latest version in what is known as a technical upgrade. Moving forward, we continue to support this type of upgrade using the same Windows PowerShell cmdlet.

### Ability to download a database backup file

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Business value

Many countries have legal requirements that customers be able to have access to the data files. Additionally, this provides the option for customers to download the file locally to import it into a local database.

### Feature details

In the Business Central Administration Center, tenant administrators can create and download a database backup for each environment for that tenant.

### Thank you for your idea

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### Improvements in update testing and preparation

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Feature details

There are several improvements that further streamline the process of updating Business Central environments. First, customization compatibility validation will be more firmly embedded in the update process. When a new update is available, an automated validation runs to ensure that any tenant environment customizations are compatible with the new version. If the tool detects incompatibility, the environment is flagged and cannot be updated or scheduled for update to the new version until customizations are updated to be compatible with the new version of the base application. This includes compatibility indicators in the Business Central Administration Center, as well as automated notifications to inform administrators about validations through the update process.

A second key enhancement is in the feedback provided to tenant administrators when an environment update fails. Administrators receive email notifications with detailed information on update failures, including actionable information when correcting the cause of the failure requires action from the administrator.

The third enhancement provides visibility into the availability of updates for AppSource extensions. Administrators will see a notification in the Extension Management page in Business Central when an update is available for an AppSource extension that has been published on the environment. The option will also be available to apply the new update directly from the **Extension Management** page.

## Multiple production environments

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Business value

Multinational companies must be able to manage their finances based on the legal requirements in the countries or regions in which they operate. With this update, you can create a Business Central production environment for business divisions, subsidiaries, and so on, that operate in different countries or regions across the world.

### Feature details

For each tenant, administrators can create multiple production environments. This will include the option for environments to be on different country-specific or region-specific versions of Business Central.

### Thank you for your idea

Thank you for submitting [this idea](#). We listened to your idea, along with comments and votes, to help us decide what to add to our product roadmap.

## New option to report production outage in the Business Central Administration Center

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Feature details

Once a partner knows that the customer's tenant is down, they can quickly create a support ticket in the Business Central Administration Center. When you choose the customer's production environment, a new option, **Report Production Outage**, is enabled. If the partner chooses this action, they must answer a few questions about the situation, and then they can submit the ticket. The resulting support ticket is filled in with the specified information about the customer's tenant.

## Support for performant data upgrade from C/AL tables to AL tables

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Business value

When converting customers with on-premises C/AL code customized solutions to an AL-based solution, data must be carried forward from the former to the latter as part of the upgrade process.

### Feature details

When you convert C/AL to AL code customizations, such as the conversion of the Business Central base application to AL, there will likely be a need to transfer data for existing customers from "old C/AL" tables to "new AL" tables. To support this, we rename tables by adding the AL extension's AppId as part of the table names.

Using the PowerShell cmdlet `Sync-NAVApp`, partners can convert all C/AL tables to AL tables with minimal database overhead and without the need to write any upgrade code. The command `Sync-NAVApp -Mode BaseAppUpgrade` renames tables on the tenant database to conform to the naming convention for AL tables. This corresponds to the technical platform upgrade for a tenant, bringing the table structure from the base application to the table structure for extensions.

## Empower ISV acceleration

### Overview

The 2019 release wave 2 update delivers a set of features designed to simplify ISV development for new solutions and, specifically, for streamlining the migration from the source code customization model of Dynamics NAV to Business Central. The Dynamics NAV business has been driven by strong vertical ISV solutions, surrounded by add-on solutions. For the 2019 release wave 2 update, our focus will be streamlining the path for ISVs to bring their solutions – and in turn their customers – to Business Central online.

## Design for extensibility

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Feature details

The first release of the source code for the Microsoft application in AL launches a new era where all applications are extensions, and extensibility begins to replace code customization. To help drive this change, we're making the core application thinner, more extensible, and easier to localize by extracting more and more of our system logic into modules, forming a system application and an application foundation. These modules put simplicity into focus by following a *one feature = one module* principle. Each module encapsulates complexity and replaces implementation details with clean, documented, and stable APIs. The smaller modules speed up the development cycle, and make it easier to monitor and optimize functionality from security and performance perspectives. The number of modules can vary, depending on the configuration, and you can update each module individually. Because this is a major shift in the development paradigm for both Microsoft and our partner community, we make each module available well ahead of the 2019 release wave 2.

As we finish modules, we publish the source code in the [ALAppExtensions repo on GitHub](#) so that you can provide direct feedback and make contributions. Currently the following modules are published:

Name	Responsibility
<a href="#">Auto Format Management</a>	Formats the appearance of decimal data types in fields of a table, report, or page. For example, you can change how amounts that include decimals appear in a Cue on a Role Center.
<a href="#">Blob Storage</a>	Provides a way to store various kinds of data. It consists of the TempBlob container to store BLOB data in-memory, the Persistent BLOB Management interface for storing BLOB data between sessions, and the TempBlob List interface for storing sequences of variables, each of which stores BLOB data. Potential uses are storing images, very long texts, PDF files, and so on.
<a href="#">Caption Class</a>	Defines how the CaptionClass property displays captions for pages and tables. You can define rules for how captions display.

Name	Responsibility
<a href="#">Compression Management</a>	The purpose of this module is to provide ability to create, update, read and dispose a binary data compression archive.
<a href="#">Confirm Management</a>	Contains helper methods that either display a confirm dialog when logic is run, or suppresses it if UI is not allowed, such as background sessions or webservice calls.
<a href="#">Cryptography Management</a>	Provides helper functions for encryption and hashing. For encryption in an on-premises versions, use it to turn encryption on or off, and import and export the encryption key. Encryption is always turned on for online versions.
<a href="#">Data Classification</a>	Helps you comply with data privacy standards by enabling you to classify data for objects that might contain sensitive information. Classifications for data sensitivity include normal, personal, company confidential, and sensitive.
<a href="#">Date-Time Dialog</a>	Helper page for entering a date-time value
<a href="#">Environment Information</a>	Contains helper methods for getting information about the tenant and general settings, such as determining whether this is a production or sandbox environment, or deployed as an online or on-premises version, and so on.
<a href="#">Extension Management</a>	Provides features for installing and uninstalling, downloading and uploading, and publishing extensions and their dependencies. It can also check whether an extension and its dependencies are installed.
<a href="#">Field Selection</a>	Provides a page where you can look up and select one or more fields from one or more tables. For example, this is useful when you want to set up a KPI on a Role Center.
<a href="#">Filter Tokens</a>	This module enhances filtering so that users can enter additional filter tokens. The Code or Text filters accept the %me, %user, and %company filter tokens. The Date, Time, and DateTime filters accept the %today, %workdate, %yesterday, %tomorrow, %week, %month, %quarter filter tokens. In addition, the Date filters support date formulas. Developers can add more filter tokens by subscribing to the OnResolveDateFilterToken, OnResolveTextFilterToken, OnResolveTimeFilterToken, OnResolveDateTokenFromDateTimeFilter and OnResolveTimeTokenFromDateTimeFilter events.

Name	Responsibility
<a href="#">Language</a>	Changes the language for Windows and applications, and converts language codes to language IDs, and vice versa. The Language table is a subset of Windows languages. You can add languages, and edit translations and descriptions in the list.
<a href="#">Object Selection</a>	Look up page for all of the application objects, including objects from installed extensions.
<a href="#">Password Dialog</a>	This module introduces a dialog for the user to enter a password.
<a href="#">Record Link Management</a>	Users can add notes and links to almost any record into the system. The current module provides APIs for developer to deal with records, for example to transfer/copy link from one record to another, transform text input into BLOB format expected by platform, clean up orphaned links.
<a href="#">Server Settings</a>	Exposes methods that get settings from the server configuration file. For example, the extension checks if the Excel add-in is installed, or if online services can be installed on the server.
<a href="#">Tenant License State</a>	Retrieves the current state of the tenant license, such as trial, paid, or suspended, including the start and end dates of the license.
<a href="#">User Login Times</a>	Records the date when users sign in for the first time, and keeps track of their two most recent sign ins.
<a href="#">User Selection</a>	Provides a page where you look up and select one or more registered users. For example, this is useful for assigning a person to things like documents, processes, or items.

### Thank you for your idea

Thank you for submitting [this idea](#). We listened to your idea, along with comments and votes, to help us decide what to add to our product roadmap.



## Migrations to Business Central online

### Overview

Moving from an on-premises solution to Business Central online is a major area of focus for our partners and customers. Today we have tooling in market that makes this process fairly simple for certain scenarios around migrating from Business Central on-premises, Dynamics NAV 2018, Dynamics GP 2018 R2, and Dynamics SL 2018 R2. We also have tooling for older versions of Dynamics GP and Dynamics SL if you are interested in only the chart of accounts and beginning balances. With our future work we are going to streamline the update process even more so that we reduce friction and make the process of moving from on-premises to online as simple and seamless as possible.

### Enhancements for customer migration tools

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically		October 2019

### Business value

After enabling ISVs to bring their solutions to Business Central online, the next step is to simplify the journey for existing Dynamics SMB customers using Dynamics 365 Business Central on-premises, Dynamics NAV 2018, Dynamics GP 2018 R2, and Dynamics SL 2018 CU1.

### Feature details

The existing data replication tooling is based on Azure Data Factory and is updated to add additional tables that are needed for the migration to be complete. For the 2019 release wave 2 update, migration tooling for Business Central on-premises and Dynamics NAV 2018 comes first, followed later with enhancements for Dynamics GP and Dynamics SL. The setup process remains the same, but there will be a rebranding component and additional tables added to support a more streamlined migration. The migration tool also supports migrating data from installed extension by default, so a customer who has extended their Dynamics NAV 2018 or Business Central on-premises application with extensions can bring that data with them to Business Central online without any additional effort.

This tool currently allows a user to use Azure Data Factory to connect their SQL Server database to a Business Central online tenant and bring their data across. In addition, the 2019 release wave 2 adds a checklist for information needed to complete the migration.

## Modern clients

### Overview

With the 2019 release wave 2, users access Business Central in the browser, Windows 10 desktop app, mobile apps on Android and iOS, or in Outlook. 2019 release wave 2 is the first version that does not include the classic development environment (also known as C/SIDE) or the Dynamics NAV Client connected to Business Central (also known as the Windows client). The modern developer experience based on Visual Studio Code now supports developing large apps such as the base application from Microsoft, and so C/SIDE is discontinued for Business Central going forward. Similarly, the modern clients now support so many productivity features that the Windows client is discontinued for Business Central going forward. The legacy Dynamics NAV client is retired in this release but remains supported for the April '19 release and earlier versions in alignment with the support lifecycle. We accelerate our investment in speed and productivity features for the modern browser experience, achieving a major milestone in its transformation into a world-class desktop experience for new and expert users alike.

### Add links to your navigation menu

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

### Business value

Business Central is ready to adapt to the unique needs of each business, department, and user. Desktop users are fully empowered to optimize their workspace to support their daily tasks and the most common data they work with.

### Feature details

Bookmark a link to any page in Business Central, and add the link to the navigation menu of your Home page.

### Add notes and links to data

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

An ability to add notes that represent slightly more unstructured data is essential in modern business applications. Notes and links are already available for on-premises deployments of Business Central and now we bring these capabilities to the online world as well, enriching its capabilities to store data in the cloud.

## Feature details

You can add internal notes to business data that is captured and processed in Business Central online. Notes are shown next to the card data, and you can add, edit, and delete notes. You can also insert hyperlinks to online content to card pages, opening up even more advanced scenarios.

## Easy access to a capability overview

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

Finding the pages or features in an easy navigation structure is essential for all users. While the navigation bar is very prominent and useful, it doesn't offer an expanded view. Similarly, prospects commonly request a high-level overview of what's in the product. Role Center navigation defines this structure already, but is now presented in a more prominent way, allowing the user to explore.

## Feature details

Finding functionality becomes easier with a full overview of pages in the product based on the content of the various Role Centers. This makes it much easier for users to navigate and find the right page, and it serves as an overview of Role Centers and their content. As a supplement to using the current Role Centers navigation bar, the command bar, or Tell Me, this new capability overview brings the different areas of Business Central closer to you so that you can stay focused and productive.

## Enhancements to Excel integration

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

Excel is one of the most common tools used with financial systems. Based on customer feedback, these planned enhancements add more scenarios for using the Microsoft Dynamics add-in for Excel with Dynamics 365 Business Central.

## Feature details

When the user selects the **Edit in Excel** action from a list page, most filters set on the list page are applied to the list when it is exported to Excel. This also enables publishing changes back into Business Central from a filtered list of records in Excel. Additionally, the number of fields available for reading and publishing edits from Excel is expanded. This includes being able to view and edit fields that are added to pages through extensions.

## Full keyboard shortcut support

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

Proficient users are more productive when they can access commonly used features using their keyboard, without having to explore the action bar to find each one. Developers now also get the possibility to respond to end-user feedback by adding keyboard shortcuts to their solutions.

## Feature details

Developers can add keyboard shortcuts to most actions and operations via an AL property. This means that application developers can specify keyboard shortcuts for actions in the base application and their own objects from their extensions. This complements the predefined list of keyboard shortcuts in Business Central and enables more flexible development for partners.

## General user experience adjustments

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

Business users often work across productivity and business apps to complete their tasks. As they transition back and forth, differences in user experiences cause friction and lost productivity.

## Feature details

Continuing our familiar look and feel across Dynamics 365 and Office 365, this update includes the addition of more fluent design elements on rows and bricks, button styling, and minor stylistic changes to captions on parts. Stylistic changes to bricks also make it easier to select an individual brick, allowing users to display related FactBoxes as well as use the Ctrl+C keyboard shortcut to copy the brick.

Role Centers no longer automatically separate root-level actions from action groups. The sequence in which they were defined in code is respected and reflected in the client for each action area.

## Longer timeout period for the server connection

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

You no longer have to sign in to Business Central again when you come back from lunch or from a meeting.

## Feature details

In earlier versions of Business Central online, the session timeout period is set to 20 minutes. We will increase this value to hours so that users are not asked to sign in to Business Central again and again.

## Thank you for your idea

Thank you for submitting [this idea](#). We listened to your idea, along with comments and votes, to help us decide what to add to our product roadmap.

## Modern clients only for Business Central

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Business value

Businesses and users want to be comfortable that the tools they use are fit for new hardware, operating systems, and changing environments. They can access Business Central through a range of modern clients, so they can be sure that only the newest, most advanced, and up-to-date tools are being used.

### Feature details

Business Central continues to evolve the modern client experiences where users work with Business Central in the browser, Windows 10 desktop app, or mobile apps on Android and iOS. With this release of Business Central on-premises, the legacy Dynamics NAV Windows client is no longer available for deployment. Instead, users can switch to the modern experience in the browser, the Android/iOS mobile apps, or the Windows 10 desktop app (available through the respective stores). For more information, see <https://aka.ms/BusinessCentralApp>.

## Personalize actions and navigation on your Home page

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

### Business value

Business Central is ready to adapt to the unique needs of each business, department, and user. Desktop users are fully empowered to optimize their workspace to support their daily tasks and the most common data that they work with.

### Feature details

Personalizing the navigation menu includes:

- Moving menu items to another position within the same or a different group.
- Moving menu item groups to another position.
- Hiding menu items or entire groups.

- Clearing your personalization, effectively returning the Role Center to its original navigation menu layout.

Personalizing Role Center actions includes:

- Moving actions to another position within the same or different group.
- Moving action groups to another position.
- Hiding actions or entire groups of actions.
- Clearing action personalization, effectively returning the Role Center to its original action layout.

As with all other personalization, the changes are effective immediately and roam with the user, no matter which device they sign in to.

### Powerful filtering for reports

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

### Business value

As the business grows, so do the data sources powering reports. This increases the need for control over precisely how much data is processed.

### Feature details

When running a report in Business Central, users are presented with a request page where they can specify various options and filters. The filter experience has been greatly improved with an experience similar to filtering lists, which includes the ability to quickly add more fields, get assistance and validation feedback when specifying filter criteria, and apply expressions and filter tokens.

### Resize columns with fewer clicks

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

Business Central is ready to support the unique needs of businesses, departments, and users. Users need to quickly and easily adjust the interface to get a better view of their business data. As users switch between business and productivity apps, consistency in fundamental interactions such as resizing columns keeps the learning curve low.

## Feature details

Adjusting the width of any column just got easier. Even though you can resize columns on any list at any time, your changes roam with you no matter which device you sign in to.

NO. ↑	DESCRIPTION	VENDOR NO.	UNIT PRICE	SUBS... EXIST	ASSE... BOM	BASE UNIT OF MEASURE	COST IS AD...	UNIT COST
1896-S	ATHENS Desk	30000	1,000.80	No	No	PCS	<input checked="" type="checkbox"/>	780.70
1900-S	PARIS Guest Chair, black l...	20000	192.80	No	No	PCS	<input checked="" type="checkbox"/>	150.30
1906-S	ATHENS Mobile Pedestal	30000	433.60	No	No	PCS	<input checked="" type="checkbox"/>	338.20
1908-S	LONDON Swivel Chair, blue	30000	190.10	No	No	PCS	<input checked="" type="checkbox"/>	148.10
1920-S	ANTWERP Conference Tab...	20000	647.80	No	No	PCS	<input checked="" type="checkbox"/>	505.40
1925-W	Conference Bundle 1-6		188.80	No	Yes	PCS	<input checked="" type="checkbox"/>	0.00
1928-S	AMSTERDAM Lamp	10000	54.90	No	No	PCS	<input checked="" type="checkbox"/>	42.80
1929-W	Conference Bundle 1-8		233.80	No	Yes	PCS	<input checked="" type="checkbox"/>	0.00
1936-S	BERLIN Guest Chair, yello...	20000	192.80	No	No	PCS	<input checked="" type="checkbox"/>	150.30
1953-W	Guest Section 1		125.80	No	Yes	PCS	<input checked="" type="checkbox"/>	0.00

*Resizing columns by hovering over the column boundary*

## Saving and personalizing list views

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

As the business grows, so does table data in the database, making quick analysis or finding records more challenging without the right tools. Defining the perfect set of filters can be a time-consuming, iterative process where the ability to persist filters will save having to recreate them the next time they are needed.

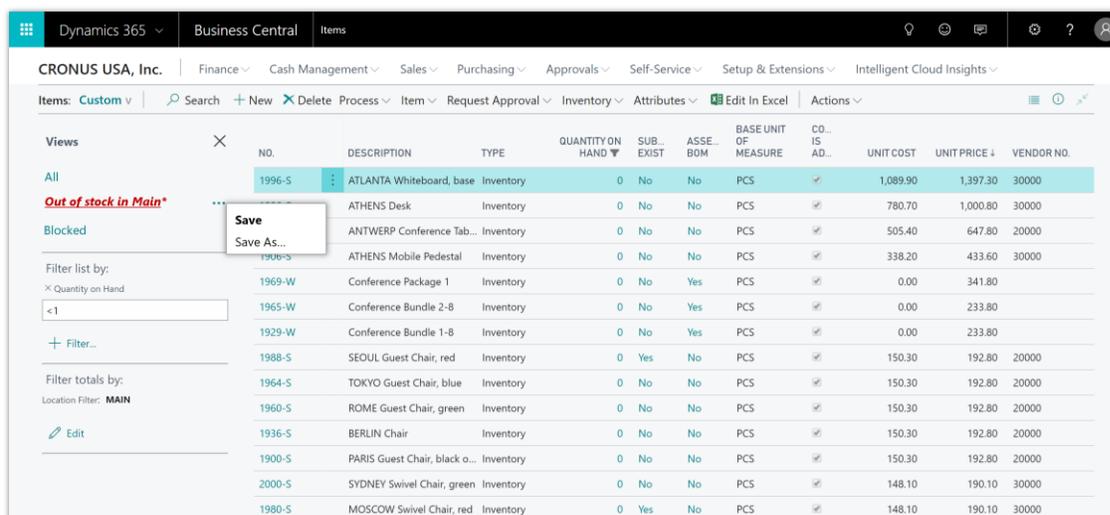
## Feature details

Users will be able to save their list filters and similar personalizations to create different ways of slicing their data. List views are given a name, such as "Items I sell," and might include:

- Filters on totals and dimensions.
- Filter tokens (such as %MyCustomers) to dynamically filter to the right data.
- Different sorting to allow more complex and tailored views of a list.

Users can quickly switch between different views of a list, which includes their own personal views or views that come as standard in their business application, in apps, or for their role.

Similar to other personalizations, list views roam with the user no matter which device or browser they sign in to.



*Concept design for saving changes to a list view*

## Switch between companies in your Business Inbox in Outlook

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

## Business value

Many businesses use multiple companies in Business Central, and users want to be able to switch between companies in their business inbox in Outlook. With the ability to quickly switch companies, users save time and feel more productive.

## Feature details

Use the new action in the Business Inbox in Outlook to switch the Business Central company context.

## Customize a user profile without writing code

Enabled for	Public preview	General availability
End users, automatically	September 2019	October 2019

## Business value

Business Central is ready to adapt to the unique needs of the business, departments, and users. Power users, department owners, and consultants demand control over which data and tasks their users get access to for their unique roles.

## Feature details

Formerly known as profile configuration mode in the Dynamics NAV Windows client, the Business Central desktop experience allows lightweight UI customizations for groups of users that share the same user profile. This can be done entirely without the use of Visual Studio Code and AL. Capabilities include:

- Add, edit, or remove user profiles from within Business Central.
- Get a more detailed overview of your profiles and focus on one of them to begin customizing it.
- Leverage all the rich capabilities of the designer to make lightweight UI customization of that profile and test your customization while you design.

Customization of user profiles does not secure access to objects or data. Administrators are still required to apply the relevant user groups or permissions sets.

## Filtering option fields by multiple values

Enabled for	Public preview	General availability
End users, automatically	September 2019	October 2019

### Business value

Back-office information workers spend significant amounts of time working with lists and reports and applying filters to narrow down their data to the relevant records. Users often need a higher degree of control as the size of the business database grows.

### Feature details

Option fields are essentially enumerations with predefined values. Until now, users have been able to choose only a single value when they set a filter in option fields. With this wave, we introduce a new multi-selection control so that users can filter by multiple values. This is treated as an OR operation. For example, you can filter the **Color** field by red, green, or blue. Multi-selection of values is available only when filtering, not when specifying the field value on the record.

## Multitasking across multiple pages

Enabled for	Public preview	General availability
End users, automatically	September 2019	October 2019

### Business value

Users often work on multiple tasks at a time and have to manage several interruptions to the current task that they are working on, such as when a call comes in that they have to take action on in Business Central.

### Feature details

Business Central allows users to open a second page in another tab or window, allowing them to do multiple tasks at the same time while working with the same company. In the same way, users can easily work with multiple companies by having multiple windows open, and the new, colorful company badge indicator helps them figure out which window represents a given company.

## Speed and agility of data entry

Enabled for	Public preview	General availability
End users, automatically	September 2019	October 2019

### Business value

Back-office workers often need to capture information or digitize paper material at high speed. For some users, this represents their sole task and entire workday. When this cannot be automated through means like OCR and AI, users require an efficient interface that does not get in the way of quickly typing in data.

### Feature details

Business Central greatly accelerates repetitive data entry in lists through a combination of productivity features, raw performance, and a responsive experience.

## Modern developer tools

### Overview

As we make the move entirely to Visual Studio Code, we continue to invest in areas that enhance productivity for developers. Specifically, we are enhancing the troubleshooting and debugging experiences, improving performance and usability when you work on multiple and large projects, empowering code insights and telemetry for ourselves and our partners, and extending capabilities in the AL language with, for example, profile extensibility.

The 2019 release wave 2 is the first version that does not include the classic development environment (also known as C/SIDE). Because the classic development environment contains tooling for many areas not directly related to actual development, we are also working on finding new homes for the features that currently reside in C/SIDE.

### Code documentation attributes

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically		October 2019

## Business value

You now have access to up-to-date documentation for methods and parameters in code and IntelliSense.

## Feature details

Similar to C#, you can provide code comments using XML tags. These comments will be used as documentation in the developer experience, such as IntelliSense and Help, and can be used to generate OpenAPI (Swagger) documentation for custom APIs.

## Convert tables from C/AL definitions to AL table definitions

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically		October 2019

## Feature details

The Windows PowerShell cmdlet `Sync-NAVApp` is updated so that you can convert all C/AL tables to AL tables with a minimal database overhead and without the need to write any upgrade code. The command `Sync-NAVApp -Mode BaseAppUpgrade` renames tables on the tenant database to conform with the naming convention for AL tables. This corresponds to a technical upgrade of the tenant, converting the table structure from the base application in earlier versions to the table structure for AL apps.

## Database insights made available in AL

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically		October 2019

## Business value

AL developers can write test code that includes tests on database usage. This way, some performance issues can be caught during development and not in production.

## Feature details

Selected database insights that surfaced in the April '19 release of the debugger will be available from AL.

## Translating other extensions

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically		October 2019

### Business value

Translate other apps, including the base app.

### Feature details

In earlier versions of Business Central, you could only provide translations of strings that were in that same extension. Now that the base application is reworked into multiple extensions, we are adding support for providing translations across extensions, including the base application.

### Access modifiers

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Business value

By using access modifiers, you have control over where it can be called from, be it your own code or third-party code building on top of your code.

### Feature details

You can control access and encapsulation of your code by adding local/private, protected, internal, or public access modifiers to AL language elements. This is similar to the way C# uses access modifiers.

### Attach and debug next

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019



## Business value

Sometimes you cannot or do not want to publish and invoke functionality to debug it, but instead attach a session to the server and await a process to trigger the breakpoint. With attach and debug next, you can do that.

## Feature details

Set a breakpoint in code and attach to a running server, online or on-premises, and the debugger will break if the breakpoint is hit while it is attached to the server.

## Base application delivered as AL applications

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

## Business value

All code customization on-premises is now in AL and the modern Visual Studio Code developer environment, finally unifying the tools for code customization and creating extensions, and enabling much richer developer scenarios going forward.

## Feature details

The 2019 release wave 2 marks the first release of the base application on AL, and code customization on-premises now happens in AL and Visual Studio Code, unifying the tools for code customization and extensions. With the volume of investments in Visual Studio Code, and the stronger compiler support for AL, this allows much richer developer scenarios.

The 2019 release wave 2 is the first version that does not include the classic development environment (also known as C/SIDE) or the Dynamics NAV Client connected to Business Central (also known as the Windows client). The modern developer experience based on Visual Studio Code now supports developing large apps such as the base application from Microsoft, and so C/SIDE is discontinued for Business Central going forward.

## Improved app dependency handling on build and deploy

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

## Business value

Avoid tedious and manual work on compiling and deploying extensions in the correct order.

## Feature details

Until now, you have been forced to manually ensure that projects with dependencies are built in the correct order, and deploying extensions with dependencies required manually uninstalling and reinstalling dependent extensions. With the 2019 release wave 2, this is managed by the tools, by traversing the dependency graph.

## More power to developers using Designer

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

## Business value

Writing code in Visual Studio Code is efficient, but designing and adjusting page layout may be cumbersome without having a faithful and visual overview of what the page looks like and how it behaves.

## Feature details

With this update, developers can also use the Designer to:

- Adjust actions and action groups on a Role Center.
- Adjust the navigation menu items and grouping on a Role Center, including building up the menu from scratch by pinning relevant lists to the menu.
- Customize user profiles by designing page changes that will apply only to a specific profile in your extension.

## Service fundamentals

### Overview

No matter the industry or size of a small or medium-sized business (SMB), business users expect a dependable service and platform on which to run their business, collaborate, and get work done. Along with our wave of innovative new features, we've invested heavily in boosting performance, reliability, and scalability of Business Central, across the platform and business application.

Business Central runs much faster with a focus on typical business scenarios and usage patterns. The experience in the browser is more responsive thanks to on-demand loading of page elements, server resources that are optimized for fast user interaction, and the database being tuned to handle more data and faster load times. We will continue to improve the application performance and are prioritizing common usage scenarios.

Users experience an even more stable service with scheduled upgrades that suit the individual business, maintenance during non-working hours, and matured service health practices to ensure maximum uptime. Users requiring assistance now have a single screen through which to find self-help material, share ideas with the community, and request support with streamlined response time.

The Business Central security team works tirelessly behind the scenes to safeguard the security of your data. In addition to continual improvements of our security infrastructure and processes, we ensure Business Central continues to meet ISO27001, ISO27017, ISO27018, SOC 1 & 2 Type 2, HIPPA BAA, and FERPA industry security and privacy compliance standards. For more details and a list of all certificates, see [Microsoft Dynamics 365 Cloud services compliance](#).

### Lock-free number series

Enabled for	Public preview	General availability
End users, automatically	August 2019	October 2019

### Feature details

End users can choose to mark number series to allow gaps in the series. These number series will be non-blocking, which will boost performance.

Selected non-financial number series in the application will be made non-blocking.

### New Support Request option in the Business Central Administration Center

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Feature details

In the Business Central Administration Center, a new support option will improve the support process for partners. In the Dynamics shell click the question mark to see **New Support Request**. You will then be directed to a new portal to enter support tickets for Business Central.

To get updates and manage the support request, you will use the new portal. The Business Central Administration Center is the new starting point so partners have clear direction on where to enter the tickets.

### Page background tasks

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Feature details

A page background task can run a codeunit (without an UI) in a read-only child session of the page session. On completion of the task, a completion trigger with the result is invoked on the page session.

If the page is closed before the task completes or the page record ID changed, the task is cancelled.

### Partners can enter support contact details in the Business Central Administration Center

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Feature details

In the Business Central Administration Center, the reselling partner can choose an environment, and then specify their name, email address, and/or a website for support. This information is then presented to the customer in their Business Central tenant when they go to the **Help & Support** page. Customers now have a clear picture of how to get support from their reselling partner. Partners do have the option to update all tenants when entering their information to save them time from entering it on all environments.

### Surrogate keys

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	August 2019	October 2019

### Feature details

A surrogate key will be added to all tables. AL developers can look up a record based on the key.

