System Requirements for Microsoft Dynamics NAV 2018

- 01/23/2019

Applies to: Microsoft Dynamics NAV 2018. See Microsoft Dynamics NAV 2017 version.

The following sections list the minimum hardware and software requirements to install and run Microsoft Dynamics NAV 2018. **Minimum** means that later versions (such as SP1, SP2, or R2 versions) of a required software product are also supported.

 Note

Dynamics NAV Setup installs some software if it is not already present in the target computer. For more information, see the "Additional Information" section for each component.

Client Components
Dynamics NAV Windows Client Requirements

The following table shows the minimum system requirements for the Microsoft Dynamics NAV Windows client.

Supported operating systems	- Windows 10 Pro, Enterprise, or Education (32-bit and 64-bit editions). **Important:** Windows 10 S is not supported. - Windows Server 2019 Standard, Essentials, or Datacenter. - Windows 8.1 Professional or Enterprise (32-bit and 64-bit editions). - Windows Server 2016 Standard, Essentials, or Datacenter. - Windows Server 2012 R2 Standard or Essentials (64-bit edition). - Windows Server 2012 Standard or Essentials (64-bit edition).

Hardware resources	• Hard disk space: 200 MB. • Memory: 1 GB.

Reports	• For editing RDLC report layouts:
	   o Report Builder for SQL Server 2016 or Visual Studio 2017 with Microsoft Rdlc Report Designer for Visual Studio installed.
	• For editing Word layouts:
	   o Microsoft Word 2013 or later

Instant messaging and Telephony API	• Microsoft Lync 2013.
Outlook client integration and mail merge	• Microsoft Office 365, Microsoft Office 2019, Microsoft Office 2016, or Microsoft Office 2013 Service Pack 1 (SP1).
Import and export with Microsoft Excel and Office XML, and SharePoint links	• Microsoft Office 2019, Microsoft Office 2016, Microsoft Office 2013 SP1, or Microsoft Office 365.
Editing in Excel using the Excel Add-in	• Excel 2019 or Excel 2016. For more information, see Setting up the Excel Add-In for Editing Dynamics NAV Data.
OneNote integration	• Microsoft Office 2019, Microsoft Office 2016, or Microsoft Office 2013 SP1.
Email logging	• Active Directory and Microsoft Exchange Server 2019, Exchange Server 2016, or Exchange Server 2013. • Microsoft Exchange Online, or Exchange Online as part of an Office 365 subscription.
Additional software	• Microsoft .NET Framework 4.7.

Additional information	• Dynamics NAV Setup installs the following software if it is not already present in the target computer: ○ Microsoft .NET Framework 4.7. • The Microsoft Dynamics NAV Windows client is available in a 32-bit version and 64-bit version. On a 32-bit Windows operating system, the 32-bit version is run. On a 64-bit Windows operating system, the 64-bit version is run by default; however, you can also run the 32-bit version if it is required. • Dynamics NAV Setup can only install the Excel Add-in if Excel is present on the target computer. • Outlook synchronization is not supported on 64-bit versions of Office.

Dynamics NAV Development Environment Requirements

The following table shows the minimum system requirements for the Microsoft Dynamics NAV Development Environment.

Supported operating systems	• Windows 10 Pro, Enterprise, or Education (32-bit and 64-bit editions). • Windows Server 2019 Standard, Essentials, or Datacenter. • Windows 8.1 Professional or Enterprise (32-bit and 64-bit editions). • Windows Server 2016 Standard, Essentials, or Datacenter. • Windows Server 2012 R2 Standard or Essentials (64-bit edition). • Windows Server 2012 Standard or Essentials (64-bit edition).
Hardware resources	• Hard disk space: 200 MB. • Memory: 1 GB.

Reports	• For creating and editing RDLC report layouts:
	   ○ Report Builder for SQL Server 2016, or
	   ○ One of the following versions of Visual Studio:
	      ▪ Visual Studio 2017 with Microsoft Rdlc Report Designer for Visual Studio installed.
	      ▪ Visual Studio 2015 Professional or Enterprise edition with SQL Server Data Tools installed.
	      Important: Before you install Visual Studio 2015, install

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	Microsoft .NET Framework 4.7; otherwise, an error will occur when you compile or run RDLC reports. For more information, see Report error "Visual Basic Command Line Compiler has stopped working".
	• For upgrading reports:
	  o Report Builder for SQL Server 2016
	• For creating Word report layouts:
	  o Word 2013 or later

Additional software	• Microsoft .NET Framework 4.7.

Additional information	• Dynamics NAV Setup installs the following software if it is not already present in the target computer:
	  o Microsoft .NET Framework 4.7.
	  o SQL Server Native Client 11.0.
	  o Report Builder for SQL Server 2016. This is not installed if a version of SQL Server Report Builder or Microsoft Visual Studio is already present on the target computer
	• If the development environment and Microsoft Dynamics NAV Server are on the same computer, then only a 64-bit operating system is supported.

Dynamics NAV Web Client Requirements

The following table shows the minimum system requirements for the Dynamics NAV Web client.

Supported browsers	• Microsoft Edge. • Internet Explorer 11. • Google Chrome 61.0 for Windows. • Mozilla Firefox 55.0 for Windows. • Safari 10.0 for macOS. For a list of browser limitations, see Browser Limitations with the Microsoft Dynamics NAV Web Client.

Business inbox in Outlook	• Microsoft Office 365.
Sending data to Excel	• Microsoft Office 2019, Microsoft Office 2016, Microsoft Office 2013 SP1, or Microsoft Office 365.
Editing in Excel using the Excel Add-in	• Excel 2016. For more information, see Setting up the Excel Add-In for Editing Dynamics NAV Data.
SharePoint Online links	• Microsoft Office 2019, Microsoft Office 2016, Microsoft Office 2013 SP1, or Microsoft Office 365.
Printing reports to Excel or Word	• Microsoft Office 2019, Microsoft Office 2016, Microsoft Office 2013 SP1, or Microsoft Office 365.
Additional information	If you experience problems using the Microsoft Dynamics NAV Web client, you can try to turn off browser tools, such as translator tools that may run in the background. Similarly, if you use zoom functionality in your browser or from a third-party tool, then elements may appear (or disappear) depending on screen size.

Dynamics NAV Tablet Client and Phone Client (in a Browser) Requirements

The following table shows the minimum system requirements for the Microsoft Dynamics NAV Tablet client and Microsoft Dynamics NAV Phone client running in a browser when used for development and testing purposes.
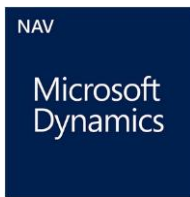
Server component	Identical to the Dynamics NAV Web client.

Supported browsers	The following desktop browsers are supported: • Microsoft Edge • Internet Explorer 11 (build 11.0.9600.17239) for Windows 10 and for Windows 8.1 (32-bit and 64-bit versions). • Google Chrome 61.0 for Windows. • Mozilla Firefox 55.0 for Windows. • Safari 10.0 for macOS.

Dynamics NAV Universal App Requirements

The following table shows the minimum system requirements for the Microsoft Dynamics NAV Universal App. For the latest information, see Dynamics NAV for Windows, Dynamics NAV for iPad and iPhone, and Dynamics NAV for Android tablet and Android phone.

Supported operating systems	• Windows 10 S, Home, Pro, Enterprise, or Education (32-bit and 64-bit editions). • Android 5.0 or higher (tablet and phone). • iOS 10.0 or higher (iPad and iPhone).
Additional hardware	• 1 GB RAM for Android and Windows.
Additional software	• A third-party telephony or VoIP app such as Skype or Lync is required for placing calls from Dynamics NAV. • A third-party email program such as Outlook is required for sending emails from Dynamics NAV. • Microsoft Office 2016 or later, or Microsoft Office 365 is required for sending data to Microsoft Excel or to Microsoft Word.
Additional information	• Device diagonal screen size 7" for tablets. • Screen resolution 960 × 510 for tablets. • Device diagonal screen size 4" for phones. • Screen resolution 854 x 480 for phones.

Server Components
Dynamics NAV Server Requirements

The following table shows the minimum system requirements for Microsoft Dynamics NAV Server.

Supported operating systems	• Windows 10 Pro, Enterprise, or Education (64-bit edition). • Windows Server 2019 Standard, Essentials, or Datacenter. • Windows 8.1 Professional or Enterprise (64-bit edition). • Windows Server 2016 Standard, Essentials, or Datacenter. • Windows Server 2012 R2 Standard or Essentials (64-bit edition). • Windows Server 2012 Standard or Essentials (64-bit edition).
Hardware resources	• Hard disk space: 500 MB. • Memory: 2 GB.
Microsoft Dynamics 365 for Sales integration	• Windows Identity Framework. For a list of supported Microsoft Dynamics 365 for Sales versions, see Microsoft Dynamics 365 for Sales Integration Requirements.
Additional software	• Microsoft .NET Framework 4.7. • Windows PowerShell 4.0.

Additional information	• Dynamics NAV Setup installs the following software if it is not already present on the target computer:
	  o Microsoft .NET Framework 4.7.
	  o Windows Identity Framework.

Dynamics NAV Web Server Components Requirements

Supported operating systems	• Windows 10 Pro, Enterprise, or Education (64-bit edition). • Windows Server 2019 Standard, Essentials, or Datacenter. • Windows 8.1 Professional or Enterprise (64-bit edition). • Windows Server 2016 Standard, Essentials, or Datacenter. • Windows Server 2012 R2 Standard or Essentials (64-bit edition). • Windows Server 2012 Standard or Essentials (64-bit edition).
Web server	• Internet Information Server 10, Internet Information Server 8.5, or Internet Information Server 8.0.
Additional software	• Microsoft .NET Framework 4.7. • Windows PowerShell 4.0.

Additional information	• Dynamics NAV Setup installs the following software if it is not already present on the target computer.
	   ○ Microsoft .NET Core 1.0 Windows Server Hosting. This is installed by Dynamics NAV Setup if not already present.
	   ○ Microsoft .NET Framework 4.7.
	   ○ Internet Information Server 10, Internet Information Server 8.5, or Internet Information Server 8.0, depending in the operating system, with the required features enabled.
	• For more information about installing IIS, see How to: Install Internet Information Services for Microsoft Dynamics NAV Web Client.

Dynamics NAV Database Components for SQL Server Requirements

The following table shows the minimum system requirements for Dynamics NAV database components for SQL Server.

Supported operating systems	• Windows 10 Pro, Enterprise, or Education (64-bit edition). • Windows Server 2019 Standard, Essentials, or Datacenter. • Windows 8.1 Professional or Enterprise (64-bit edition). • Windows Server 2016 Standard, Essentials, or Datacenter. • Windows Server 2012 R2 Standard or Essentials (64-bit edition).

	• Windows Server 2012 Standard or Essentials (64-bit edition).
Hardware resources	For more information, see Hardware and Software Requirements for Installing SQL Server 2016. From this page, you can also access requirements for other versions of SQL Server.
SQL Server	• Microsoft SQL Server 2017 Express, Standard or Enterprise. • Microsoft SQL Server 2016 Express, Standard or Enterprise. • Microsoft SQL Server 2014 Express, Standard or Enterprise. • Azure SQL Database V12 Standard and Premium service tiers. For more information, see Installation Considerations for Microsoft SQL Server.
Service Packs and Cumulative Updates	Unless explicitly stated, all released Service Packs and Cumulative Updates of the above Microsoft SQL Server versions are supported. It is recommended to always be on the latest released Service Pack and Cumulative Update.
Additional information	Dynamics NAV Setup installs the following software if it is not already present on the target computer: • SQL Server 2016 Express (64-bit edition). If the operating system on the target computer does not support SQL Server 2016 Express, Setup displays a pre-requisite warning. In this case you should exit Setup and then update the operating system on the computer to one that does support SQL Server 2016 Express. Then run Setup again.

Dynamics NAV Help Server Requirements

The following table shows the minimum system requirements for the Dynamics NAV Help Server.

Supported operating systems	• Windows 10 Pro, Enterprise, or Education (64-bit editions). • Windows Server 2019 Standard, Essentials, or Datacenter. • Windows 8.1 Professional or Enterprise (64-bit edition).

	• Windows Server 2016 Standard, Essentials, or Datacenter. • Windows Server 2012. • Windows Server 2012 Essentials.
Hardware resource	• Hard disk space: 500 MB. • Memory: 2 GB.
Web server	• Internet Information Server 10, Internet Information Server 8.5, or Internet Information Server 8.0.
Additional software	• Microsoft .NET Framework 4.7.

Additional information	• Dynamics NAV Setup installs the following software if it is not already present on the target computer.
	   ○ Microsoft .NET Framework 4.7.
	   ○ Internet Information Server 10, Internet Information Server 8.5, or Internet Information Server 8.0. depending on the operating system, with the required features enabled.
	• For more information about installing IIS, see How to: Install Internet Information Services for Microsoft Dynamics NAV Web Client.
	• Windows Search must be enabled on the computer that you install the Dynamics NAV Help Server on. If you install on Windows Server 2012, and Windows Search is not enabled as a file service, Dynamics NAV Setup adds the service. However, the changes do not take effect until the computer has restarted.

Additional Components and Features

Automated Data Capture System Requirements

The following table shows the minimum system requirements for Automated Data Capture System (ADCS) for Dynamics NAV.

Additional software	• MSXML version 6.0. • Telnet or Microsoft Windows HyperTerminal. • VT100 Plug-in for each computer on which you install ADCS.

	• Microsoft Loopback Adapter.
Additional information	• HyperTerminal is no longer included with Windows. For more information, see [What happened to HyperTerminal?](#) in the Windows Help. • VT100 Plug-in acts as a virtual Telnet server.

Business Inbox in Microsoft Outlook Requirements

The following table shows the minimum system requirements for using Dynamics NAV as your business inbox in Outlook.

Supported Outlook Applications	• Outlook 2013 or later • Outlook Web App • OWA for iPad • OWA for iPhone • OWA for Android.
Supported Exchange Servers	• Exchange Online • Exchange Server 2019 • Exchange Server 2016 • Exchange Server 2013. In deployments that use Exchange Server, the Exchange PowerShell endpoint must be accessible by Microsoft Dynamics NAV Server.
Supported Authentication	• The Microsoft Dynamics NAV Server must be configured to run with NavUserPassword, ACS, or AAD Credentials Type. Also, the Microsoft Dynamics NAV Web client must be configured for Secure Sockets Layer (SSL).
Supported Browsers	• When using the Outlook Web App (OWA), your computer must be running a supported browser listed in the Microsoft Dynamics NAV Web client Requirements.

Supported Operating Systems	• When using OWA for iPad, OWA for iPad, or OWA for Android, your mobile device must use a supported Operating System listed in Microsoft Dynamics NAV Universal App Requirements.

Microsoft Outlook Add-In Requirements

The following table shows the minimum system requirements for the Dynamics NAV Add-In for Outlook for synchronization with Outlook.

Supported Outlook Applications	• Outlook 2019 • Outlook 2016 • Outlook 2013 SP1 • Outlook 2010 SP2 (32-bit edition).
Supported Exchange Servers	• Exchange Server 2019 • Exchange Server 2016 • Exchange Server 2013 • Exchange Online.

Microsoft Dynamics 365 for Sales Integration Requirements

The following table shows the system requirements for integrating Dynamics NAV with Microsoft Dynamics 365 for Sales.
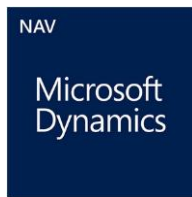
Microsoft Dynamics CRM versions	• Microsoft Dynamics CRM 2015 or Microsoft Dynamics CRM 2016 Note: AD, IFD and Claims authentication types are supported for above editions. • Microsoft Dynamics CRM Online 2015, Microsoft Dynamics CRM Online 2015 Update 1, or Microsoft Dynamics CRM Online 2016 Update 1 or Microsoft Dynamics 365

	Note: Oauth and Office365 authentication types are supported for these editions. For more details on authentication types, see [Connection strings in XRM tooling to connect to Dynamics 365](#).
Dynamics NAV Integration Solution (.zip)	For Dynamics CRM 2015, Dynamics CRM Online 2015, and Dynamics CRM Online 2015 Update 1: • Use the DynamicsNAVIntegrationSolution.zip file that is found on the Dynamics NAV 2016 installation media (DVD) to install the solution. • Item Availability is not supported on Dynamics CRM 2015, versions Update 1 and Online. For more information, see [How to: Prepare Dynamics 365 for Sales for Integration](#).

Dynamics NAV as an App for SharePoint Requirements

The following table shows the minimum system requirements for Dynamics NAV as an App for SharePoint.

Supported operating systems	• Windows Server 2019 Standard, Essentials, or Datacenter. • Windows Server 2016 Standard, Essentials, or Datacenter. • Windows Server 2012 R2 Standard or Datacenter (64-bit edition). • Windows Server 2012 Standard or Datacenter (64-bit edition).
Additional software	• SharePoint 2013 Service Pack 1. • SharePoint Online.

Automated Deployment on Microsoft Azure Requirements

Automated deployment of Dynamics NAV on Microsoft Azure by using the provisioning tools is only supported on Azure virtual machines that are running Windows Server 2012. For additional requirements for specific Dynamics NAV components, refer to the other sections in this topic.

See Also

Welcome to the Developer and IT-Pro Help for Microsoft Dynamics NAV
Product and Architecture Overview
Installation Options
Client Types
How to: Configure SSL to Secure the Connection to Microsoft Dynamics NAV Web Client

Microsoft Dynamics ERP, CRM and Cloud
Online Search: Endeavour Solutions Canada