

.NET Core Upgrade Guidance

Background and Purpose

.NET Core is a cross-platform version of .NET maintained by Microsoft for building websites, services, and console apps and is included as a core component of the RALS Application. When Microsoft reviews and updates their software products and services on an ongoing and regular basis, including those released for .NET Core, RALS customers will need to install the newer patched versions of .NET upgrades in place of older versions for the reasons stated in the update or upgrade.

The purpose of this guidance is to provide the steps necessary to upgrade .NET Core. Failure to select the correct .NET Core runtime components will result in functionality issues within the RALS application so prior to performing the upgrade, ensure that only the ASP.NET Core Runtime Windows Hosting Bundle is what will be installed.

Considering Microsoft updates their software products and services on a regular basis, each .NET Core update will be reviewed for any potential impact to the RALS Product. Results of this evaluation will be released together with the Monthly Microsoft Security Updates statement on the RALS website.

Prior to Upgrade

1. Check RALS security website: <https://www.rals.com/us/home/security.html>, to confirm the latest version of the ASP.NET Core Runtime that has been evaluated by the RALS team.
2. Download information: The ASP.NET Core Runtime Windows Hosting Bundle installer can be downloaded from Microsoft website:
 - a. For customers with RALS v6.0SP7 and higher:
<https://dotnet.microsoft.com/download/dotnet-core/3.1>
Please go to the most recently evaluated version and choose the **Windows Hosting Bundle** link to download the install package. (See screenshot below for reference)

Latest 3.1.xx version

ASP.NET Core Runtime 3.1.

The ASP.NET Core Runtime enables you to run existing web/server applications. **On Windows, we recommended installing the Hosting Bundle, which includes the .NET Core Runtime and IIS support.**

IIS runtime support (ASP.NET Core Module v2)

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OS	Installers	Binaries
Linux	Package manager instructions	Arm32 Arm64 Arm64 Alpine x64 x64 Alpine
macOS		x64
Windows	Hosting Bundle x64 x86	Arm32 x64 x86

- b. For customers with RALS v6.0SP6 and lower:

<https://dotnet.microsoft.com/download/dotnet-core/2.1>

Please go to the most recently evaluated version and choose the **Windows Hosting Bundle** link to download the install package. (See screenshot below for reference)

Latest 2.1.xx version

ASP.NET Core Runtime 2.1.

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OS	Installers	Binaries
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macOS		x64
Windows	Hosting Bundle x64 x86	x64 x86

- Work with your IT team to determine how the executable is to be deployed onto the RCS (RALs Core System). Place the downloaded ASP.NET Core Runtime Windows Hosting Bundle installer into the folder D:\Library\Alere\Install.
- Follow the Upgrade procedure below.

Upgrade Procedure for 2.1.xx and 3.1xx (Below use 2.1.xx as an example)

Follow this procedure **IN THE EXACT ORDER SPECIFIED**

1. Uninstall any old .NET Core files. (Screenshot below shows an example of existing .NET Core 2.1.17)
 - Any old .NET Core 2.1.xx hosting bundle
 - Any old .NET Core Runtime 2.1.xx (x64)
 - Any old .NET Core Run time 2.1.xx (x86)

Microsoft .NET Core 2.1.17 - Windows Server Hosting	Microsoft Corporation	8/6/2020	272 MB	2.1.17.0
Microsoft .NET Core Runtime - 2.1.17 (x64)	Microsoft Corporation	8/6/2020	89.5 MB	2.1.17.28619
Microsoft .NET Core Runtime - 2.1.17 (x86)	Microsoft Corporation	8/6/2020	78.3 MB	2.1.17.28619
Microsoft .NET Framework 4.5 Multi-Targeting Pack	Microsoft Corporation	5/17/2020	41.8 MB	4.5.50710

2. Install the latest evaluated version of ASP.NET Core Runtime Windows Hosting Bundle by running the installer executable.
3. Re-open Add or Remove Programs, verify only the 3 components (Hosting, x64, x86) below are installed. (Screenshot below shows an example of new installed .NET Core 2.1.20)

Active Directory Authentication Library for SQL Server	Microsoft Corporation	5/17/2020	1.78 MB	14.0.1000.169
Browser for SQL Server 2017	Microsoft Corporation	5/17/2020	15.9 MB	14.0.1000.169
Microsoft .NET Core 2.1.20 - Windows Server Hosting	Microsoft Corporation	8/6/2020	271 MB	2.1.20.0
Microsoft .NET Core Runtime - 2.1.20 (x64)	Microsoft Corporation	8/6/2020	89.4 MB	2.1.20.29019
Microsoft .NET Core Runtime - 2.1.20 (x86)	Microsoft Corporation	8/6/2020	78.3 MB	2.1.20.29019
Microsoft .NET Framework 4.5 Multi-Targeting Pack	Microsoft Corporation	5/17/2020	41.8 MB	4.5.50710
Microsoft .NET Framework 4.5.1 Multi-Targeting Pack	Microsoft Corporation	5/17/2020	49.3 MB	4.5.50932
Microsoft .NET Framework 4.5.1 Multi-Targeting Pac...	Microsoft Corporation	5/17/2020	74.5 MB	4.5.50932

4. Reboot the server.
5. Check RALS interface, verify RALS system performs as expected.

Questions?

For more information or to ask questions, please contact RALS Customer Support at 877.627.7257 or visit us online at <https://prd-auth.ardxdigital.com/editor.html/content/rals/us/home/support.html>.