Deprecated Features for ArcGIS 10.4

Deprecated Features for the ArcGIS 10.4 Release

Updated for the ArcGIS 10.4.1 release.

The deprecation plan for ArcGIS is updated for every ArcGIS release. We continue to expand coverage for ArcGIS applications and ArcGIS Runtime SDKs.

With each release, we assess the platforms we support and the functionality in the ArcGIS platform and adjust these based on customer needs and technology trends. The purpose of this document is to provide as much advance notice as possible regarding these changes.

This document outlines the planned changes in platform and functionality with the release of ArcGIS 10.4 and the upcoming release of 10.4.1. This document also includes references to the ArcGIS 10.3 and 10.3.1 deprecation notes.

For a definition of *deprecation*, see http://en.wikipedia.org/wiki/Deprecation.

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ArcGIS 10.4

ArcGIS 10.4 for Engine

- [Added May 14, 2016] ArcGIS Engine for Windows developers who are using the ArcGIS Engine SDK for Cross -platform C++ should begin planning to use the ArcGIS Engine SDK for COM (B6 and VC++) instead. The ArcGIS Engine SDK for Cross-platform C++ will not be supported after ArcGIS 10.4.1.

- [Added April 13, 2016] ArcGIS 10.4.1 will be the last release of Engine Linux. There will not be a 10.5 release of ArcGIS Engine for Linux. ArcGIS 10.4.x for Engine Linux will be supported till 2022. We recommend that customers explore the ArcGIS Runtime SDKs for Java and Qt as an alternatives.

ArcGIS 10.4 for Server

[Added July 27, 2016] ArcGIS 10.4.x for Server was the last major release series with support for Red Hat Enterprise Linux 5. Beginning with the next major release, we will support Red Hat Enterprise Linux 6x and 7x.

- [Added May 14, 2016] ArcGIS 10.4.1 and ArcGIS Pro 1.3 will be the last release that supports the PostgreSQL 9.2.x series of releases. For ArcGIS 10.5 and ArcGIS Pro 1.4 we are planning to support PostgreSQL 9.3.x, 9.4.x, and 9.5. Customers that are using the PostgreSQL 9.2.x series will need to upgrade their PostgreSQL.

- [Added April 13, 2016] ArcGIS 10.4.1 for Server will be the last release to include support for the Mobile Content Server and Mobile Data Access features in the GIS server. These features supported ArcGIS for Windows Mobile, the retired ArcGIS app, and other retired or deprecated workflows. We recommend customers consider migration to new mobile applications such as Collector for ArcGIS, Survey123 for ArcGIS, Workforce for ArcGIS, and Explorer for ArcGIS. If building or deploying custom mobile solutions, please refer to the Building Apps section on the Developers site (developers.arcgis.com) for your development path going forward.

- [Added April 13, 2016] ArcGIS 10.5.x for Server will be the last major release series to include support for Search Service functionality in the GIS server. We recommend customers explore the Web GIS pattern and use of the portal as a way to organize maps, layers, and data.

Other 10.4 Notes

- [Added July 27, 2016] Beginning with the release of ArcGIS Runtime SDK v100.0 (Quartz) that is scheduled for later this year, we will no longer be supporting 32-bit versions of Linux. This

includes Red Hat and Ubuntu. Only the 64-bit versions of Red Hat, Ubuntu and the newly introduced SuSE Linux will be supported. This only applies to the ArcGIS Runtime SDKs for Java and Qt. There are no plans at this time to resume support for Linux 32-bit platforms beyond the v100.0 release. Existing ArcGIS Runtime users on Linux 32-bit platforms will continue to be supported through the ArcGIS Runtime SDKs 10.2.x product life cycles (for Java and Qt), which extend into late 2018.

The motivations for this change are:
1. Fewer and fewer vendors are providing 32-bit binaries so these are difficult to obtain and certify on.
2. Fewer and fewer customers are using Runtime on 32-bit Linux platforms.

- [Added April 13, 2016] ArcGIS 10.2.1 for Windows Mobile (compatible with 10.3) is the last release of ArcGIS for Windows Mobile. It is no longer part of our development strategy and no additional features, functionality or performance/stability updates will be released. Esri recommends customers consider migration to new mobile applications such as Collector for ArcGIS, Survey123 for ArcGIS, Workforce for ArcGIS, and Explorer for ArcGIS now. If building and deploying custom mobile solutions, please refer to Building Apps on the Developers site for your development path forward. Please refer to the product life cycle document for additional information (need the URL)

- [Updated August 10, 2015] ArcGIS 10.4 will be the last release that supports Oracle Spatial GeoRaster data type. Since the release of ArcGIS Image Extension for Server, Esri has been promoting the use of mosaic datasets stored in a file or enterprise geodatabase as an optimum model to not only catalog the rasters and metadata but optimally to define processing rules defining how the imagery should be processed when accessed. This approach of leaving the imagery in its original form can significantly reduce data storage and processing by removing the need to store multiple variations of the same data source. After the 10.4 release, existing data stored in Oracle Spatial GeoRaster will be read-only. Also note that ArcGIS Pro does not support the Oracle Spatial GeoRaster data type.

ArcGIS 10.3 and 10.3.1

ArcGIS 10.3.1 for Desktop

- [Updated September 8, 2015] ArcObjects SDK for the Microsoft .NET Framework 10.3.1 was the last release of ArcObjects .NET to ship with support for the Microsoft .NET Framework 3.5 (.NET 2.0 Runtime). At 10.4, ArcObjects .NET will ship with .NET Framework 4.5 as the default. All developers consuming ArcObjects .NET are encouraged to begin moving existing .NET-based extensions to .NET Framework 4.5 in anticipation of this change. This includes both ArcGIS for Desktop and ArcGIS for Server extensions. ArcObjects .NET 10.4 will install Primary Interop Assemblies (PIAs) built against .NET SDK 4.0 , and all new extension development should be started on .NET Framework 4.5 or later. ArcObjects .NET 10.4 will support Microsoft Visual Studio 2013 (Note: It will support Visual Studio 2015 if this has been released prior to the 10.4 final.) ArcObjects .NET 10.4 will not be supporting Visual Studio 2012.

- [Updated January 24, 2015] Esri will continue to ship Microsoft Visual Basic for Applications (VBA) compatibility setup with ArcGIS as long as we continue to ship ArcMap or until Microsoft notifies us that we can no longer distribute this.

- [Added January 24, 2015] Esri will continue to ship the CASE tools with ArcGIS for Desktop through the 10.3.x releases. For users interested in geodatabase design with UML, we recommend using Sparx Systems' Enterprise Architect, as it offers many advantages over the CASE tools functionality.

ArcGIS 10.3.1 for Server

- [Updated September 8, 2015] Support for .NET Framework 3.5 Service Pack 1 (SP1) for ArcGIS Web Adaptor (IIS) will end with the last release of the ArcGIS 10.3 series of releases (ArcGIS 10.3.1). At ArcGIS 10.4, ArcGIS Web Adaptor (IIS) will require .NET Framework 4.5 or higher.

- [Added June 15, 2015] Portal 10.3.1 for ArcGIS will be the last release supporting Internet Explorer 7 and 8. This decision is based on Microsoft's statement: "Beginning January 12, 2016, only the most current version of Internet Explorer available for a supported operating system will receive technical support and security updates." Note: Microsoft's policy can be found at support2.microsoft.com/gp/microsoft-internet-explorer.

- [Added June 15, 2015] Support for the 10.0 SQL Server-based identity store will end with the last release of the 10.4 series of releases (ArcGIS 10.4.x). Note: From 10.1 onward, we supported this as a read-only identity store by following a documented migration workflow at server.arcgis.com/en/server/latest/administer/windows/using-a-10-0-net-sql-server-security-store-in-later-versions.htm.

- [Added June 15, 2015] ArcGIS 10.4.x for Server will be the last major release series to include support for globe services. We recommend customers explore the new 3D web scene support introduced with ArcGIS 10.3.1 for Server as a powerful new alternative.

- [Added June 15, 2015] ArcGIS 10.4.x for Server will be the last release series to support Red Hat Enterprise Linux 5.x. The next major release will only support Red Hat Enterprise Linux 6.x and above.

- [Added January 24, 2015] ArcGIS Explorer Online has been retired for nearly a year and is no longer part of our deployment/certification of ArcGIS Online. As such, ArcGIS Explorer will not be included with future releases of Portal for ArcGIS. Portal 10.3 for ArcGIS does not include support for ArcGIS Explorer Online.

- [Added January 24, 2015] ArcGIS API 3.7 for Flex and ArcGIS Viewer 3.7 for Flex will be the final releases. For information on the end of life (retired date) for Flex API and Flex Viewer, see downloads.esri.com/support/product%20life%20cycle/online_gis/ArcGISWebMappingAPIs_PLC.pdf. For our road map for developers, see blogs.esri.com/esri/arcgis/2014/02/21/esris-roadmap-for-web-developers/. For our blog on the final release and support plan for our Flex and Silverlight APIs/Viewers, see blogs.esri.com/esri/supportcenter/2014/11/10/final-release-and-support-plan-for-the-arcgis-apis-viewers-for-flex-and-silverlight/.

- [Added January 24, 2015] ArcGIS API 3.3 for Silverlight and ArcGIS Viewer 3.3 for Silverlight will be the final releases. For information on the end of life (retired date) for the Silverlight API and Silverlight Viewer, see downloads.esri.com/support/product%20life%20cycle/online_gis/ArcGISWebMappingAPIs_PLC.pdf. For our blog on the road map for developers, see blogs.esri.com/esri/arcgis/2014/02/21/esris-roadmap-for-web-developers/. For our blog on the final release and support plan for our Flex and Silverlight APIs/Viewers, see blogs.esri.com/esri/supportcenter/2014/11/10/final-release-and-support-plan-for-the-arcgis-apis-viewers-for-flex-and-silverlight/.

- [Added June 15, 2015] Beginning with the December 2015 update, ArcGIS Online configurable app templates and map viewer will no longer support Internet Explorer 7 and 8. This decision is based on Microsoft's statement: "Beginning January 12, 2016, only the most current version of Internet Explorer available for a supported operating system will receive technical support and security updates." Note: Microsoft's policy can be found at support2.microsoft.com/gp/microsoft-internet-explorer.

- [Added June 15, 2015] ArcGIS 10.3.1 and ArcGIS Pro 1.1 will be the last release to support the Oracle 10*g* R2 10.2.0.x series of releases. For ArcGIS 10.4 and ArcGIS Pro 1.2, we are planning to support Oracle 11*g* R2 (64 bit) 11.2.0.4 and Oracle 12*c* R1 (64 bit) 12.1.0.1. Note: Oracle ended premier support for Oracle 10*g* R2 (10.2.0.x) on July 2010 and extended support ended on July 2013. For details on Oracle support for 11*g* R2 (11.2.x), see https://blogs.oracle.com/UPGRADE/entry/premier_support_for_oracle_11.

- [Updated June 15, 2015] ArcGIS 10.3.1 and ArcGIS Pro 1.1 will be the last release to support the PostgreSQL 9.1.x series of releases. For ArcGIS 10.4 and ArcGIS Pro 1.2, we are planning to support PostgreSQL 9.2.x, 9.3.x, and 9.4.x. Customers that are using PostgreSQL 9.1.14 or an earlier release will need to upgrade their PostgreSQL.

- [Added June 15, 2015] Beginning with ArcGIS 10.3, we no longer support configuring stand-alone log files. The replacement for the ArcSDE command line tool for configuring log files is the Configure Geodatabase Log files tool. The options for log file type with this tool are Shared or Session, so this tool does not configure stand-alone log files. If you have existing stand-alone log files, you can continue to use them; however, customers using stand-alone log files are encouraged to move to the default log file type for their database.

- [Updated September 8, 2015] ArcGIS 10.4 will be the last release to support storing locators in a personal, file, or enterprise geodatabase. Esri recommends that customers begin to move their locators out of their file or enterprise geodatabases into a file folder location instead. Note: ArcGIS Pro only supports storing address locators in a file folder—not in a geodatabase.

- [Updated June 27, 2015] Support for Microsoft SQL Server 2008/2008 R2 will end with the last release of the ArcGIS 10.3 series of releases (ArcGIS 10.3.x). ArcGIS Pro 1.x does not support SQL Server 2008 and 2008 R2.

- [Added July 2, 2015] Because of web technology trends, the ArcGIS Maps Silverlight web part, a feature of Esri Maps for SharePoint, will be deprecated after the Esri Maps for SharePoint 4.0 release. The ArcGIS Maps JavaScript web part, a feature of Esri Maps for SharePoint, contains many enhanced features not available in the ArcGIS Maps Silverlight web part. It is recommended that customers use the ArcGIS Maps JavaScript web part in place of the ArcGIS Maps Silverlight web part—you will no longer be able to add new ArcGIS Map Silverlight web parts to site pages. To continue using your existing web parts, upgrade all sites containing the

web part to Esri Maps for SharePoint 4.0 and save the pages. You'll then be able to continue using the ArcGIS Maps Silverlight web parts seamlessly.

- [Added January 24, 2015 and Updated February 12, 2015] ArcGIS 10.3 supports PostgreSQL 9.1.14.1, 9.2.9, and 9.3.5. Customers that are using PostgreSQL 9.0.5 or an earlier release will need to upgrade their PostgreSQL.

New Updates for ArcGIS Runtime SDKs and Apps

- [Added September 8,, 2015] ArcGIS Runtime SDK for .NET (10.2.6) will be the last release to support Microsoft Windows 8. The next release of ArcGIS Runtime SDK for .NET will continue to support Windows 8.1. Note: Esri is making this change because Microsoft is ending service pack support for Windows 8 in January 2016.

- [Added June 15, 2015] ArcGIS Runtime SDK 10.2.5 for Qt is the last version to support OpenGL on Windows. ArcGIS Runtime SDK 10.2.6 for Qt will only support DirectX. ArcGIS Runtime SDK for Qt will continue to support OpenGL on Linux.

- [Added June 15, 2015] ArcGIS Runtime SDK 10.2.6 for Qt will be the last release with support for locator packages (.gckp files). Locator packages are created by ArcGIS for Desktop for sharing locators. See desktop.arcgis.com/en/desktop/latest/guide-books/geocoding/about-sharing-your-address-locator-as-a-locator-package.htm. Note: ArcGIS Runtime SDK 10.2.5 for the Microsoft .NET Framework and ArcGIS Runtime SDK 10.2.4 for Java were the last releases of those SDKs to support locator packages. ArcGIS Runtime SDKs for Android, iOS, and OS never supported locator packages.

- [Updated August 10, 2015] ArcGIS Runtime core has dropped support for Red Hat Enterprise Linux 6 and only supports Red Hat Enterprise Linux 7 for the upcoming Quartz release. This means that the most recent releases of Runtime SDKs were the last ones to include support for Red Hat Enterprise Linux 6. Users who need continued support for Red Hat Enterprise Linux 6 will have these versions available for their applications. The reason for this change is so the ArcGIS Runtime core can take advantage of the most current C++ compiler features available.

- [Added February 19, 2015] ArcGIS Runtime SDK 10.2.3 for Qt was the last release to support Linux 32 bit. ArcGIS Runtime SDK 10.2.5 for Qt will support 64-bit Linux only. Note: The Qt SDK did not have a 10.2.4 release.

- [Updated September 8, 2015] ArcGIS Runtime SDK 10.2.5 for WPF will be the final release of the product. The ArcGIS Runtime SDK 10.2.5 will be retired on July 1, 2016. Customers who develop with ArcGIS Runtime SDK for WPF are encouraged to use ArcGIS Runtime SDK for the Microsoft .NET Framework, which includes support for building WPF applications. For more information, see the Product Life Cycle for WPF SDK.

- [Added January 24, 2015] ArcGIS Runtime SDK 10.2.5 for Android will be the last release that supports ARMv6 devices.

- [Added January 24, 2015] ArcGIS Runtime SDK 10.2.4 for Android was the last release to provide an Eclipse plug-in experience. Esri still supports Eclipse as a development environment with ArcGIS Runtime SDK for Android, but there will not be a supported Eclipse plug-in.

- [Added January 24, 2015] ArcGIS Runtime SDK 10.2.4 for Java was the last release to support Eclipse Juno. ArcGIS Runtime SDK 10.2.4 for Java will still support Eclipse Luna.