Deprecated Features for ArcGIS 10.5.1
Deprecated Features Plan updated for the ArcGIS 10.5.1 Release

The deprecated features plan for ArcGIS is updated for every ArcGIS release.

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 10.5.1. This document also includes for reference the ArcGIS 10.5 and ArcGIS 10.4.x deprecated feature notes.

The ArcGIS 10.5.1 version of the Deprecated Features document supersedes all older versions of this document.

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

Contents

ArcGIS 10.5.1 ......................................................................................................................... 3
  ArcGIS Desktop 10.5.1 ................................................................................................. 3
  ArcGIS Enterprise 10.5.1 .......................................................................................... 3
  ArcGIS Runtime SDKs 100.x ...................................................................................... 4

ArcGIS 10.5 .......................................................................................................................... 4
  ArcGIS Desktop 10.5 ................................................................................................... 4
  ArcGIS Enterprise 10.5 .............................................................................................. 4
  ArcGIS Runtime SDKs ................................................................................................ 5
  Other 10.5 Notes ....................................................................................................... 6

ArcGIS 10.4 .......................................................................................................................... 7
  ArcGIS 10.4 for Engine .............................................................................................. 7
  ArcGIS 10.4 for Server ............................................................................................... 7
  Other 10.4 Notes ....................................................................................................... 7
### ArcGIS Desktop 10.5.1

**Support for Visual Studio 2013**

ArcGIS 10.5.1 will be the last release to support Visual Studio 2013 for the ArcObjects SDK. The ArcObjects SDK at ArcGIS 10.6 will support Visual Studio 2015 and 2017.

### ArcGIS Enterprise 10.5.1

**Support for the portalpy module hosted on GitHub**

Esri is announcing the deprecation of the portalpy module hosted on GitHub and included with ArcGIS Enterprise 10.5 and some prior releases. The next major release of ArcGIS Enterprise will stop bundling portalpy and no further development is planned for the module. The GitHub repository will continue being hosted for the foreseeable future. Users of the portalpy module are highly encouraged to migrate to the recently released ArcGIS API for Python for functionality similar to and beyond what was available in portalpy.

**Support for cluster functionality**

Esri is announcing the deprecation of the cluster functionality within the ArcGIS Server component of ArcGIS Enterprise. Instead we recommend creating separate ArcGIS Server sites where multiple clusters would have been used previously. While we are not announcing a specific future release where cluster functionality will be removed, the use of multiple clusters for new deployment is strongly discouraged and existing deployments are advised to migrate away from use of clusters as part of ongoing maintenance and upgrades.

Note: this does not affect the ability to create multi-machine sites. ArcGIS Server sites with multiple machines continue to be fully supported.

**Support for PostgreSQL 9.3**

ArcGIS 10.5.1 will be the last release to support the PostgreSQL 9.3.x series of releases. For ArcGIS 10.6 we are planning to support the PostgreSQL 9.4.x, 9.5.x, and 9.6 series of releases. Customers that are using the PostgreSQL 9.3.x series will need to upgrade their PostgreSQL servers.

**Support for DB2 V9.7 and DB2 V10.1**

Esri is announcing that we are planning to upgrade our base minimum support for IBM’s DB2 to DB2 V10.5 Fix Pack 5 starting at ArcGIS 10.6. As a result, ArcGIS 10.5.1 will be the last release to support DB2 V9.7 (end of support date: September 30, 2017) and DB2 V10.1 (end of support date: September 30, 2017).

**Support for the ST_Raster data type**

Esri is announcing ArcGIS 10.5.1 will be the last release that supports ST_Raster data type for Oracle, SQL Server, and PostgreSQL. Since the release of ArcGIS Image Extension for Server/ArcGIS Image 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.

Esri continues to provide support for imagery storage in the database through the traditional binary raster storage type that can be accessed by setting the dbtune RASTER_STORAGE parameter to binary for SQL Server and PostgreSQL and blob for Oracle.

Support for Workgroup Geodatabases

This is to serve as notice that Esri does not plan to support creating new Workgroup Geodatabases with ArcGIS Pro. However, this is not announcing the deprecation of Workgroup Geodatabases. ArcGIS Pro users will be able to connect to and work with existing Workgroup Geodatabases and users can create new Workgroup Geodatabase with ArcMap and ArcCatalog 10.x.

ArcGIS Runtime SDKs 100.x

Support for XCode versions older than 8.2.x
Esri is announcing that ArcGIS Runtime SDK 100.0 for Qt was the last release that supports XCode versions OLDER THAN 8.2.x. ArcGIS Runtime SDK 100.1 for Qt (Update 1) will only support XCode 8.2.1 or higher.

Support for Qt SDK version 5.7.x
Esri is announcing that ArcGIS Runtime SDK 100.0 for Qt will be the last release with support of the Qt SDK version 5.7.x. The Qt Company is not releasing patches on this version any longer.

ArcGIS 10.5

Support for Microsoft Visual Basic for Applications
Microsoft informed Esri that they will no longer provide any fixes or troubleshooting for third-party implementations of Microsoft Visual Basic for Applications (VBA). Given this Microsoft statement, Esri can no longer support distribution of VBA. The ArcGIS Desktop 10.5 release will not include the Microsoft VBA compatibility setup. ArcGIS 10.4.1 for Desktop is the last release that includes the VBA compatibility setup.

ArcGIS Enterprise 10.5

Support for SQL Server Based Geodatabases with Multiple Databases
Microsoft SQL Server Only – ArcGIS 10.5.x and Pro 1.x through Pro 2.0 are the last releases to
support upgrading SQL Server based geodatabases with multiple databases. We will continue to allow connections to multiple model geodatabases in order to provide our customers with these more time to migrate, but after 10.5.x and Pro 2.0 we will prevent upgrading multiple model geodatabases to newer versions.

Support for Customer Managed Enterprise Geodatabases with a Hosting Server
ArcGIS Enterprise 10.5.x is the last major release series to support the use of a customer managed enterprise geodatabase for use with a Hosting Server connected to Portal for ArcGIS. In the next major release following ArcGIS Enterprise 10.5, it will be required to use ArcGIS Data Store for the Hosting Server. Please see the Migrate to ArcGIS Data Store help topic for information on moving an existing deployment to ArcGIS Data Store: http://server.arcgis.com/en/portal/latest/administer/windows/migrate-to-arcgis-data-store.htm

Note: this deprecation does not affect the ability to connect to enterprise geodatabases in general or using an enterprise geodatabase as the managed database of an ArcGIS Server site that is not designated as the Hosting Server of a portal.

Support of Amazon Web Services AMIs Containing SQL Server
ArcGIS Enterprise 10.5 is the last major release series for which Esri will produce an Amazon Web Services (AWS) AMIs containing SQL Server. Customers using SQL Server in AWS are encouraged to look at the Amazon RDS for SQL Server offering in AWS as an alternative. Esri will continue to include SQL Server Express on our Windows-based AMI and PostgreSQL on our Ubuntu-based AMI.

Support for Windows Server 2008
ArcGIS Enterprise 10.5 is the last major release series with support for Windows Server 2008. Esri will continue to support Windows Server 2008 R2 until its end of support lifecycle from Microsoft in January 2020.

Support for Internet Explorer 9 and 10 [Updated May 2017]
ArcGIS Enterprise 10.5.x is the last release to support Internet Explorer 9 and 10. Subsequent releases will not be tested or supported on these browsers. Esri recommends customers to move to Internet Explorer 11 or other modern browsers such as Microsoft Edge, Google Chrome, or Mozilla Firefox.

Microsoft ended support for older versions of Internet Explorer on certain operating systems on January 12, 2016. This means they no longer conduct security updates, compatibility fixes, and technical support. Beginning with ArcGIS Enterprise 10.6, we will no longer fix issues specific to Internet Explorer 9 or 10, test those versions, or list limitations in the help for the Portal for ArcGIS web applications. This includes configurable apps and Map Viewer. ArcGIS Server Manager will continue to provide support for Internet Explorer 10 on Windows Server 2012 because of the unique support situation on that operating system.
Support for iOS 8 macOS Yosemite
With the ArcGIS Runtime SDKs we typically support the two latest OS versions available, so with the recent release of iOS 10 and macOS Sierra, ArcGIS Runtime SDK 100.0 for iOS will be supporting iOS 10 and iOS 9 and ArcGIS Runtime SDK 100.0 for macOS will support macOS Sierra and macOS El Capitan. This means that we will not be supporting iOS 8 and macOS Yosemite with ArcGIS Runtime SDK 100.0. Note: There really isn’t any change in the devices we support with ArcGIS iOS SDK as every device we supported earlier can be upgraded to run iOS 9.

Support for Linux 32-bit devices with ArcGIS Runtime SDK 100.0 for Java
ArcGIS Runtime SDK 100.0 for Java will not be supported on Linux 32-bit devices. This is due to the fact that the ArcGIS Runtime SDK 100.0 Local Server will not be supported on 32-bit Linux.

Other 10.5 Notes

Note: there are no items for this section.
**ArcGIS 10.4.x**

### ArcGIS 10.4 for Engine

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.

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 until 2022. We recommend that customers explore the ArcGIS Runtime SDKs for Java and Qt as an alternative.

### ArcGIS 10.4 for Server

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.

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.

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.

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

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.

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).

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.