

Information Technology Policy

Geospatial Information Systems (GIS) Standards

ITP Number STD-SFT004A	Effective Date November 19, 2021
Category Software	Supersedes None
Contact RA-ITCentral@pa.gov	Scheduled Review November 2022

1. Purpose

Standards document to ITP-SFT004 *Geospatial Information Systems (GIS)* details the GIS standards.

CURRENT STANDARDS

(These technologies meet the requirements of the current architecture and are recommended for use.)

Technology	Platforms	Category	Technology Classification
ESRI ArcGIS Desktop ArcMap; all ArcGIS Desktop extensions available on the Esri MPA	Microsoft Desktop	GIS Desktop Software	Current https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcmap/10-8-1#product-support (all product versions showing as "general availability" and "extended support")
ESRI ArcGIS Desktop Pro; all ArcGIS Desktop Pro extensions available on the Esri MPA	Microsoft Desktop	GIS Desktop Software	Current https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcgis-pro/2-8-2#product-support (all versions showing as "general availability")
ESRI ArcGIS Enterprise (ArcGIS Server, Portal for ArcGIS, ArcGIS Data Store, ArcGIS Web Adaptor, ArcGIS Image Server, ArcGIS GeoEvent Server, ArcGIS GeoAnalytics Server, ArcGIS Notebook Server, ArcGIS Workflow Manager Server ; all ArcGIS Enterprise extensions available on the Esri MPA	Microsoft and Unix Server/Database	GIS Web Mapping/Web Services Software	Current https://support.esri.com/en/Products/Enterprise/arcgis-server/ArcGIS-Server/10-9#product-support (all versions showing as "general availability" and "extended support")
ArcGIS Developers Web APIs – ArcGIS API for Javascript- Runtime SDKs - .NET - Local Server - Android - iOS	All	Developer Tools	Current https://support.esri.com/en/Products/Developers/native-runtime-sdks/arcgis-runtime-sdk-for-dotNET/100-11-2#product-support (all product versions showing as "general availability" and

- Java - macOS			"extended support")
ArcGIS Apps (Web Apps, Mobile Apps, Plug-in Apps, App Builders, Other Apps); all apps available on the Esri MPA	All	Developer Tools	Current https://support.esri.com/en/Products/Apps/web-apps/Arcgis-Dashboards/9-2#product-support (all product versions showing as "general availability" and "extended support")
Oracle Spatial 18c and newer	Oracle	Database Geospatial Software	Current https://www.oracle.com/us/support/library/lsp-tech-chart-069290.pdf

CONTAIN STANDARDS

(These technologies no longer meet the requirements of the current architecture and are not recommended for use. They will be phased out over time. No date has been set for their discontinuance.)

Technology	Platforms	Category	Technology Classification
ESRI ArcGIS Desktop ArcMap; all ArcGIS Desktop extensions available on the Esri MPA	All	GIS Desktop Software	Contain https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcmap/10-8-1#product-support (all product versions showing as "mature support")
ESRI ArcGIS Desktop Pro; all ArcGIS Desktop Pro extensions available on the Esri MPA	Microsoft Desktop	GIS Desktop Software	Contain https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcgis-pro/2-8-2#product-support (all versions showing as "mature support")
ESRI ArcGIS Enterprise (ArcGIS Server, Portal for ArcGIS, ArcGIS Data Store, ArcGIS Web Adaptor, ArcGIS Image Server, ArcGIS GeoEvent Server, ArcGIS GeoAnalytics Server, ArcGIS Notebook Server, ArcGIS Workflow Manager Server; all ArcGIS Enterprise extensions available on the Esri MPA	Microsoft and Unix Server/Database	GIS Web Mapping/Web Services Software	Contain https://support.esri.com/en/Products/Enterprise/arcgis-server/ArcGIS-Server/10-9#product-support (all product versions showing as "mature support")
ArcGIS Developers Web APIs – ArcGIS API for Javascript	Microsoft and Unix Server/Database	GIS Developer tools	Contain https://support.esri.com/en/Products/Developers/web-apis/arcgis-api-for-javascript/4-20#product-support (all product versions showing as "mature support")

Oracle Spatial 12.1, 12.2	Oracle	Database geospatial software	Contain https://www.oracle.com/us/support/library/lsp-tech-chart-069290.pdf
Safe Software FME	Microsoft Desktop	Data Loading and Transformation software	Contain
ERDAS Imagine 2020 and below	Microsoft Desktop	Imagery Visualization, Manipulation, and Remote Sensing	Contain
ENVI 5.6 and below	Microsoft Desktop	Imagery Visualization, Manipulation, and Remote Sensing	Contain
LizardTech (Extensis) MrSID, GeoExpress	Microsoft Desktop	Imagery Manipulation, Compression and Mosaicking	Contain
Intergraph TerraServer	Microsoft Server/Web	Imagery Server	Contain
ArcGIS Developers Web APIs – ArcGIS API for Javascript- Runtime SDKs - .NET - Local Server - Android - iOS - Java - macOS	All	Developer Tools	Contain https://support.esri.com/en/Products/Developers/native-runtime-sdks/arcgis-runtime-sdk-for-dotNET/100-11-2#product-support (all product versions showing as “mature support”)
ArcGIS Apps (Web Apps, Mobile Apps, Plug-in Apps, App Builders, Other Apps); all apps available on the Esri MPA	All	Developer Tools	Contain https://support.esri.com/en/Products/Apps/web-apps/Arcgis-Dashboards/9-2#product-support (all product versions showing as “mature support”)
Google Maps API, Google Earth Pro		GIS Web Mapping/Data Visualization	Contain
GeoMedia 2020 and below	All	All	Contain

RETIRE

(These technologies are being phased out. Plans are to be developed for their replacement, especially if there is risk involved, such as lack of vendor support. A date for retirement has been set.)

Technology	Platforms	Category	Technology Classification
ESRI ArcGIS Desktop ArcMap			https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcmap/10-8-1#product-support (all product versions showing as “retired”)

ESRI ArcGIS Desktop Pro	All	GIS Desktop Software	https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcgis-pro/2-8-2#product-support (all product versions showing as "retired")
ESRI ArcGIS Enterprise (ArcGIS Server, Portal for ArcGIS, ArcGIS Data Store, ArcGIS Web Adaptor, ArcGIS Image Server, ArcGIS GeoEvent Server, ArcGIS GeoAnalytics Server, ArcGIS Notebook Server, ArcGIS Workflow Manager Server; all ArcGIS Enterprise extensions	All	All	https://support.esri.com/en/Products/Enterprise/arcgis-server/ArcGIS-Server/10-9#product-support (all product versions showing as "retired")
ArcGIS Developers Web APIs – ArcGIS API for Javascript- Runtime SDKs <ul style="list-style-type: none"> - .NET - Local Server - Android - iOS - Java - macOS 	All	Developer Tools	https://support.esri.com/en/Products/Developers/native-runtime-sdks/arcgis-runtime-sdk-for-dotNET/100-11-2#product-support (all product versions showing as "retired")
ArcGIS Apps (Web Apps, Mobile Apps, Plug-in Apps, App Builders, Other Apps); all apps available on the Esri MPA	All	Developer Tools	Retire https://support.esri.com/en/Products/Apps/web-apps/Arcgis-Dashboards/9-2#product-support (all product versions showing as "retired")
Oracle Spatial 11.2 and older	Oracle	Database Spatial Software	Retire https://www.oracle.com/us/support/library/lsp-tech-chart-069290.pdf

EMERGING / RESEARCH

(Emerging technologies have the potential to become current standards. At the present time, they are to be used only in pilot or test environments where they can be evaluated. Use of these technologies is restricted to a limited production mode, and requires approval of a waiver request. Research technologies are less widely accepted and time will determine if they will become a standard.)

Technology	Platforms	Category	Technology Classification

This chart contains a history of this publication’s revisions:

Version	Date	Purpose of Revision
Original	11/19/2021	Base Document