

Information Technology Policy

Geospatial Information Systems (GIS) Standards

Number
STD-SFT004A

Effective Date
November 19, 2021

Category
Software

Supersedes
None

Contact
RA-ITCentral@pa.gov

Scheduled Review
September 2025

1. Purpose

Standards document to [ITP-SFT004, Geospatial Information Systems \(GIS\)](#) details the GIS standards.

2. Standards

2.1 Current

These technologies are the current standards and meet the requirements of the current architecture. They are recommended for use and can be deployed immediately.

Software	Platforms	Category	Technology Classification
ESRI ArcGIS ArcMap; all ArcGIS ArcMap extensions available on the Esri MPA	Microsoft Desktop	GIS Desktop Software	Current ArcMap Life Cycle Esri Support (All product versions showing as “general availability” and “extended support”)
ESRI ArcGIS Pro; all ArcGIS Pro extensions available on the Esri MPA	Microsoft Desktop	GIS Desktop Software	Current ArcGIS Pro Life Cycle Esri Support (All versions showing as “general availability”)
ESRI ArcGIS Enterprise; all ArcGIS Enterprise extensions available on the Esri MPA	Microsoft and Unix Server/Database	GIS Web Mapping/Web Services Software	Current ArcGIS Enterprise Life Cycle Esri Support (All versions showing as “general availability” and “extended support”)

Software	Platforms	Category	Technology Classification
ArcGIS Developers Web APIs – ArcGIS API for Javascript - Runtime SDKs - .NET - Local Server - Android - iOS - Java - macOS	All	Developer Tools	Current All ArcGIS Products Esri Support (All product versions showing as “general availability” and “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 ArcGIS Online Life Cycle Esri Support (All product versions showing as “general availability” and “extended support”)
GeoJobe	All	Administrative Tools	Current GEO Jobe ArcGIS Solutions - The Power of GIS, Simplified (geo-jobe.com)
Oracle Spatial 18c and newer	Oracle	Database Geospatial Software	Current https://www.oracle.com/us/support/library/lsp-tech-chart-069290.pdf

2.2 Contain

These technologies no longer meet the requirements of the current architecture and are not recommended for use. Existing deployments of these will be phased out over time.

Software	Platforms	Category	Technology Classification
ESRI ArcGIS ArcMap; all ArcGIS ArcMap extensions available on the Esri MPA	All	GIS Desktop Software	Contain ArcMap Life Cycle Esri Support (All product versions showing as “mature support”)
ESRI ArcGIS Pro; all ArcGIS Pro extensions available on the Esri MPA	Microsoft Desktop	GIS Desktop Software	Contain ArcGIS Pro Life Cycle Esri Support (All versions showing as “mature support”)
ESRI ArcGIS Enterprise; all ArcGIS Enterprise extensions available on the Esri MPA	Microsoft and Unix Server/Database	GIS Web Mapping/Web Services Software	Contain ArcGIS Enterprise Life Cycle Esri Support (All product versions showing as “mature support”)

Software	Platforms	Category	Technology Classification
ArcGIS Developers Web APIs – ArcGIS API for Javascript - Runtime SDKs - .NET - Local Server - Android - iOS - Java - macOS	Microsoft and Unix Server/Database	GIS Developer tools	Contain All ArcGIS Products Esri 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 Apps (Web Apps, Mobile Apps, Plug-in Apps, App Builders, Other Apps); all apps available on the Esri MPA	All	Developer Tools	Contain All ArcGIS Products Esri Support (All product versions showing as “mature support”)
Google Maps API, Google Earth Pro	All	GIS Web Mapping/Data Visualization	Contain
GeoMedia	All	All	Contain
Blue Marble Global Mapper / Global Mapper Pro	All	GIS Desktop Software	Contain

2.3 Emerging/Research

Emerging or research technologies have the potential to become current standards. At the present time, they shall only be used 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.

Software	Platforms	Category	Technology Classification

2.4 Retire

These technologies are being phased out. Plans shall be developed for their replacement, especially if there is a risk involved, such as lack of vendor support.

Software	Platforms	Category	Technology Classification
ESRI ArcGIS ArcMap in status "retired"	All	GIS Desktop Software	ArcMap Life Cycle Esri Support (All product versions showing as "retired")
ESRI ArcGIS Pro in status "retired"	All	GIS Desktop Software	ArcGIS Pro Life Cycle Esri Support (All product versions showing as "retired")
ESRI ArcGIS Enterprise; all ArcGIS Enterprise extensions in status "retired"	All	All	ArcGIS Enterprise Life Cycle Esri Support (All product versions showing as "retired")
ArcGIS Developers Web APIs – ArcGIS API for Javascript in status "retired" - Runtime SDKs - .NET - Local Server - Android - iOS - Java - macOS	All	Developer Tools	All ArcGIS Products Esri Support (All product versions showing as "retired")
ArcGIS Apps in status "retired" (Web Apps, Mobile Apps, Plug-in Apps, App Builders, Other Apps); all apps available on the Esri MPA	All	Developer Tools	All ArcGIS Products Esri Support (All product versions showing as "retired")
Oracle Spatial 11.2 and older	Oracle	Database Spatial Software	https://www.oracle.com/us/support/library/lsp-tech-chart-069290.pdf

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

Version	Date	Purpose of Revision
Original	11/19/2021	Base Document
Revision	12/13/2023	Updated all Technology Classification links to the product lifecycle documentation; Removed Geomedia specific version; Added Blue Marble Software to Contain; Added Drone Technology to Emerging/Research; Added GeoJobe to the Current table; corrected link in Purpose to ITP-SFT004 Geospatial Information Systems (GIS)
Revision	09/26/2024	Updated links to ESRI Product Life Cycle Added GeoJobe as a current standard Added Blue Marble Global Mapper / Global Mapper Pro as contain. Misc. updates to product names where needed