# ArcGIS® for Mobile

# Making Your Mobile Workforce More Efficient

## What Is Mobile GIS?

Mobile geographic information system (GIS) technology extends GIS beyond the office and allows organizations to make accurate, real-time business decisions and collaborate in both field and office environments. Mobile GIS will enable your organization to decrease task redundancy and keep data more current.

## Benefits of Mobile GIS

- Improves efficiency and accuracy of field operations
- Provides rapid data collection and seamless data integration
- Replaces paper-based workflows
- Helps you make timely and informed decisions

## Esri Solutions for Complex Projects and Routine Tasks

Esri understands the value of mobile GIS to organizations needing immediate access to up-to-date, real-time information, regardless of location, and offers a range of mobile field mapping applications that help you make more informed decisions in the field. These applications include

- ArcPad®
- ArcGIS® for Windows Mobile and Windows Tablet
- ArcGIS for Smartphones and Tablets

# ArcPad

## Mapcentric Windows Mobile and Windows Tablet-Based Field Mapping and Data Collection for GIS Professionals

ArcPad is mobile field mapping and data collection software designed for GIS professionals. It includes advanced GIS and GPS capabilities for capturing, editing, and displaying geographic information quickly and efficiently. Critical data can be checked in and out of a multiuser or personal geodatabase and shared throughout your organization.

ArcPad is part of an enterprise GIS solution and integrates directly with ArcGIS for Desktop and ArcGIS for Server to

- Perform reliable field data collection and inspection projects.
- Share enterprise data for rapid decision making.
- Integrate external GPS, range finders, and digital cameras.
- Increase the accuracy and validity of your GIS database.
- Improve the productivity of your field staff.

# ArcGIS for Windows Mobile and Windows Tablet

## Task-Driven Mobile GIS Applications for Windows Mobile and Windows Tablet Devices

ArcGIS for Windows Mobile helps organizations deliver GIS capabilities and data to a range of mobile devices. You can use ArcGIS for Windows Mobile to deploy mobile GIS applications that increase the accuracy and improve the currency of GIS data throughout your organization. These applications provide an accurate, reliable common operating picture for field staff.

ArcGIS for Windows Mobile comes with ready-to-deploy applications and a configurable software development kit (SDK) to create stand-alone mobile applications, embed GIS functionality into existing applications, and build custom tasks and extensions.

### ArcGIS for Windows Mobile Applications

ArcGIS for Windows Mobile applications integrate with ArcGIS for Server and ArcGIS for Desktop to provide central management and deployment of mobile GIS data, maps, tasks, and projects.

- View and navigate mobile maps.
- Collect, edit, and update GIS data in real time and share information with colleagues immediately.
- Search and manage tasks or plan future work.
- Rapidly deploy mobile GIS without needing to develop your own solution.

### ArcGIS Runtime SDK for Windows Mobile

The included runtime SDK lets developers use simple tools to create lightweight, GIS-focused applications customized to users' needs:

- Create and deploy focused mobile applications that can operate in a connected or disconnected environment.
- Build geocentric applications that provide GIS functionality including map display, navigation, GPS support, and GIS editing.
- Enhance line-of-business applications, such as customer relationship management and field service automation systems, with geospatial capabilities.
- Get comprehensive developer support through the online Mobile Resource Center.

# ArcGIS for Smartphones and Tablets

Map Navigation, Data Collection/Reporting, and GIS Analysis from Your iOS, Windows Phone, or Android Device

ArcGIS apps for smartphones extend the reach of your GIS to a wider audience. These are free applications that you can download from the Apple® App Store℠, Windows® Marketplace, or Android™ Market. All three apps include a developer-focused SDK that you can leverage to build your own custom applications.

- Find and share maps from ArcGIS℠ Online.
- Use tools to search, identify, measure, and query.
- Collect and update GIS features and attributes.
- Perform GIS analysis by accessing geoprocessing tasks.

## For Developers

The ArcGIS Runtime SDK for smartphones enables you to build applications that utilize the powerful mapping, geocoding, geoprocessing, and custom capabilities provided by ArcGIS for Server. You also have the ability to embed ArcGIS maps and tasks into your line-of-business applications.

- Use and display services from ArcGIS Online and ArcGIS for Server.
- Execute sophisticated geoprocessing tasks and display results.
- Create applications that collect and update data.

# Functionality Matrix for Esri's Mobile Solutions

| | ArcPad | ArcGIS for Windows Mobile and Windows Tablet |
|---|---|---|
| **Supported Devices** | | |
| Smartphones | N | N |
| Tablets | Y (Windows Tablet) | Y |
| Laptops | Y | Y |
| External Devices | Y | Y |
| Operating Systems | Windows Mobile 5, 6 Windows XP, Vista®, 7 | Windows Mobile 5, 6 Windows XP, Vista, 7 |
| **Network Connectivity** | | |
| Wi-Fi® | Y | Y |
| Cell | Y | Y |
| Bluetooth® | Y | Y |
| **In-Field Functionality** | | |
| Task and Workflow Driven | N | Y |
| Disconnected Editing | Y | Y |
| Data Collection | Y | Y |
| Photo Collection | Y | Y |
| Ad Hoc Data Collection | Y | N |
| Editing of Layer Display Properties (symbology, color, etc.) | Y | N |
| Map Services (via ArcGIS for Server) | Y | Y |
| ArcGIS Online Services | Y | Y |
| Share Maps (SMS, e-mail, social media) | N | N |
| **Customization** | | |
| Developer SDK | ArcPad Studio | ArcGIS Runtime SDK for Windows Mobile |
| Customize ArcGIS Application via SDK | Y | Y |
| Application Extensions/Add-ins | Y | Y |
| **App Deployment** | | |
| Enterprise | ActiveSync | ActiveSync |
| Website | N | Y |
| Application Store/Marketplace | N | N |

| ArcGIS for iOS | ArcGIS for Windows Phone | ArcGIS for Android |
|---|---|---|
| Y | Y | Y |
| Y | N | Y |
| N | N | N |
| N | N | N |
| iOS | Windows Phone | Android |
| | | |
| Y | Y | Y |
| Y | Y | Y |
| Y | Y | Y |
| | | |
| Y | Y | Y |
| N | N | N |
| Y | Y | Y |
| Y | Y | Y |
| N | N | N |
| N | N | N |
| Y | Y | Y |
| Y | Y | Y |
| Y | Y | Y |
| | | |
| ArcGIS Runtime SDK for iOS | ArcGIS Runtime SDK for Windows Phone | ArcGIS Runtime SDK for Android |
| Y | Y | Y |
| N | N | N |
| | | |
| iTunes® | Windows Phone SDK Tools | Android SDK Tools |
| Y (Enterprise) | Y | Y |
| Y | Y | Y |

## ArcPad

- Advanced GIS capabilities that support ad hoc data collection
- GPS integration to facilitate postprocessing
- Support for related tables

## ArcGIS for Windows Mobile and Windows Tablet

- Offers central management, configuration, and deployment of apps and projects
- Synchronizes GIS information from server and desktop clients
- Includes a .NET SDK for building custom applications

## ArcGIS for Smartphones and Tablets

- Leverage ArcGIS using Apple iOS™, Windows Phone, and Android devices.
- Navigate maps, collect and report data, and perform GIS analysis.
- Access your enterprise GIS via ArcGIS Online or ArcGIS for Server.
- Use the developer runtime SDK to build custom mapping applications that meet your specific business needs.

Find out more about Esri® mobile GIS products.
**esri.com/mobilesolutions**

# esri®

Understanding our world.

Esri inspires and enables people to positively impact their future through a deeper, geographic understanding of the changing world around them.

Governments, industry leaders, academics, and nongovernmental organizations trust us to connect them with the analytic knowledge they need to make the critical decisions that shape the planet. For more than 40 years, Esri has cultivated collaborative relationships with partners who share our commitment to solving earth's most pressing challenges with geographic expertise and rational resolve. Today, we believe that geography is at the heart of a more resilient and sustainable future. Creating responsible products and solutions drives our passion for improving quality of life everywhere.

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