



Esri International User Conference | San Diego, CA
Technical Workshops |

Road Ahead – ArcGIS for Windows Mobile

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Esri Mobile Products

ArcGIS running on ...

ArcGIS for Windows Mobile



ArcPad

Rugged Devices

iOS



Microsoft
Windows Phone



Android



Smartphones and Tablets

The ArcGIS System

Pervasive across computing platforms...



Lightweight Applications and Runtime SDKs

Configurable COTS applications and Native ArcGIS Runtime SDKs

iOS	Android	Windows Phone	Windows Mobile	Windows	Linux
Applications <ul style="list-style-type: none">• ArcGIS	Applications <ul style="list-style-type: none">• ArcGIS	Applications <ul style="list-style-type: none">• ArcGIS	Applications <ul style="list-style-type: none">• ArcGIS	Applications <ul style="list-style-type: none">• ArcGIS Explorer*, ArcGIS	Applications <ul style="list-style-type: none">• None
Runtime SDK <ul style="list-style-type: none">• Objective C	Runtime SDK <ul style="list-style-type: none">• Java	Runtime SDK <ul style="list-style-type: none">• Silverlight	Runtime SDK <ul style="list-style-type: none">• .NET	Runtime SDK <ul style="list-style-type: none">• WPF, Java	Runtime SDK <ul style="list-style-type: none">• Qt, Java
					

ArcGIS on Rugged Devices

Windows and Windows Mobile Devices

- Designed for harsh field conditions
- One handed/vehicle-mounted use
- Occasionally connected workflows
- High accuracy data collection
 - **GNSS/RTK integration**
 - **Laser integration**
- Replace Paper Surveys
 - **Intelligent forms**
 - **Barcode integration**



Water Facilities Mapping

Asset Maintenance/Inspection

First Responders

Land Management

ArcGIS for Windows Mobile

Applications plus SDK

Application

- Rapid Deployment of Maps, Apps & Projects
- Task-based, Workflow Driven User Experience
- Synchronization of Data between Field & Office
- Local Caching of Data

API

- Coarse-grained .NET API
- Build focused, custom solutions
- Extend COTS application

Platforms

- Windows XP, Vista, Windows 7
- Windows Mobile



ArcGIS for Windows Mobile Licensing

ArcGIS Desktop and ArcGIS Server

ArcGIS Desktop (ArcView, ArcEditor, ArcInfo)



- 1 free deployment license
- Additional packs of 5 can be purchased

ArcGIS Server



- Advanced Enterprise license (unlimited deployments)
- Standard Enterprise license (purchase 50 packs)

Gulf Oil Spill

Large Scale COTS Deployment

Projects:

- **USFWS**
 - Recovery/Rehabilitation of oiled birds
- **Alabama Marine Police**
 - Verification of Boom placement and state
- **Louisiana Guard**
 - Placement of Engineered Obstacles
 - Surveys (inc. Photo Capture)
 - Daily reporting to Coast Guard

ArcGIS Mobile 10

- Trimble Nomad Units
- AT&T Sim Card, Immarsat Terminals
- Air Watch



450 Handheld Devices Deployed, 139 Active Projects

Joplin Windshield Survey

Custom App Deployment

- 21 teams deployed using Panasonic Toughbooks
- 900 structures assessed in day 1 with damage estimated at over \$62 million



Roadmap



ArcGIS Mobile 10.0 Update Schedule



- **Focused Quality Updates**
- **Latest Release Available on Customer Care Portal**
 - Build 2500 NIM List on [Mobile Blog Site](#) (16 issues resolved)
- **Does not require uninstall/re-install of desktop software**
- **List of 21 issues queued for 2525 update**

Whats New in 10.1?

Simplified workflows, improved project deployment

- **Simplified Data Collection Experience**
 - Tap on Shape attribute to collect
 - Less taps (Map, Averaging, Streaming on same page)
 - Repeat collection optimizes workflow
- **Editing of Existing Feature Geometry**
 - Recollect the shape
 - Extend linear features
 - Replace portions of lines or polygons
 - Delete portions of lines or polygons
- **Support for Geodatabase Attachments**
 - Capture multiple photos for a feature
 - Attach documents/files to a feature
 - Pull attachments for offline use



Whats New in 10.1?

Simplified workflows, improved project deployment

GPS Configuration and Display

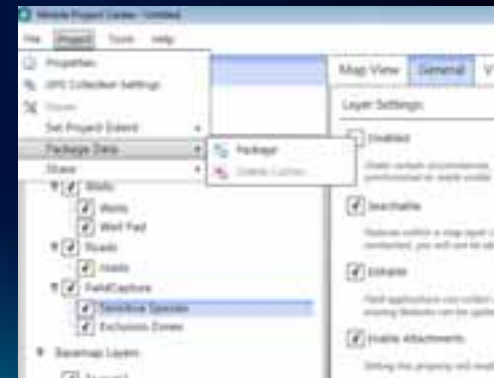
- First time use configuration of GPS settings
- Configurable “heads up” GPS display on all Map pages
(Lat/Lon, number of satellites, PDOP, bearing, moving direction)

Waypoint Navigation

- “As the crow flies” of GPS-based navigation
Displays location, bearing, distance, direction, speed, arrival time
- Navigate to location on map or a feature

Publishing and Deployment

- Desktop workflow improvements
 - Package data (mobile cache and base map) into wmpk
 - Package project extensions into wmpk
- Integrated Service Publishing Experience for Mobile Services
 - Find errors and warnings before publishing
- Improved ArcGIS Online integration within Mobile Project Center
 - Support for My Content
 - Sharing maps in Groups



Whats New in 10.1?

Simplified workflows, improved project deployment

ArcGIS for Windows Mobile Runtime SDK

- Upgrade to Compact Framework 3.5 and Visual Studio 2008
- Windows Mobile Application Framework (you get new features in the app)
- Support for Attachments
- New Native Geometry library (brings new operators like client side buffer)
- GPS library improvements
- Tile Package support
- Stand alone table support

Long Term Plans – Windows Mobile

What is coming after 10.1

- **Follow the ArcGIS Release Cycle**
- **Continue 10.0 “Update Path” with 10.1 Updates**
- **Future Releases for Windows Mobile (10.Next)**
 - **Support Microsoft’s new handheld OS solution (TBD)**
 - **Support tables and relationship classes**
 - **Improved symbology model**
 - **Native Support laser range finders**

Long Term Plans – Windows Tablet

What is coming after 10.1

- **Release New ArcGIS for Windows Tablet Application**
 - Built on ArcGIS Runtime SDK for WPF, Windows 7
- **Key Requirements Include:**
 - Configurable Maps (Build on Web Map)
 - Offline/Occasionally connected workflows
 - Data Collection and Editing
 - Measure Locations/Features
 - Related Feature Editing
 - Dynamic Map Legend
 - Switch Base Maps
 - GPS Display and Navigation
 - Query Support
 - Place/Address Search (local/online)
 - A to B Routing
 - Location-based tracking and messaging

The background is a dark blue gradient with a faint grid of light blue lines. On the right side, there is a stylized, semi-transparent globe showing green landmasses and blue oceans. The globe is partially cut off by the right edge of the frame.

Questions?

Thank You



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