What's New in ArcPad® 10

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An Esri White Paper

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What's New in ArcPad 10

Highlights

Support for ArcGIS Online Basemaps

You can now access ArcGIS℠ Online map services, such as World Street Map, World Topographic Map, and World Imagery, as well as Microsoft® Bing™ Maps, and use them in your ArcPad® projects.

Improved Performance

Performance has been increased with better allocation of memory and a new quick draw tool. Enhancements have also been made to the Esri® StreetMap™ extension to ensure the maximum amount of memory is available to both ArcPad and StreetMap.

New Feature Creation with QuickCapture

ArcPad 10 includes a dynamic toolbar that automatically builds the tools and forms you need to edit data. With a simple tap of the stylus, you can add data to the data layer of your choice. The customized QuickCapture toolbar can be used across all your ArcPad projects.

Enhanced ArcPad Data Manager for ArcGIS 10

The ArcPad Data Manager extension for ArcGIS® 10 now lets you customize an ArcPad project without the need for coding or scripting. You save time because data forms are automatically generated and populated for related tables. Also, you have greater control over using photos in ArcPad projects, and hyperlinked photos are now integrated in the checkout and check-in process.

Better Camera and Photo Experience

A new camera module, DirectShow®, works for a greater number and range of hardware devices. The camera's user experience is the same on all mobile devices. Along with improved photo management (within the ArcPad Data Manager extension for ArcGIS Desktop), you are able to incorporate photos into your ArcPad projects much faster and more easily.

Integration with ArcLogistics

With ArcLogistics™, you can utilize extended ArcPad tools. The ArcPad navigation tool (the GoTo tool) has been enhanced to launch ArcLogistics Navigator (if installed) for routing between features. You can also directly launch ArcLogistics Navigator from within ArcPad.

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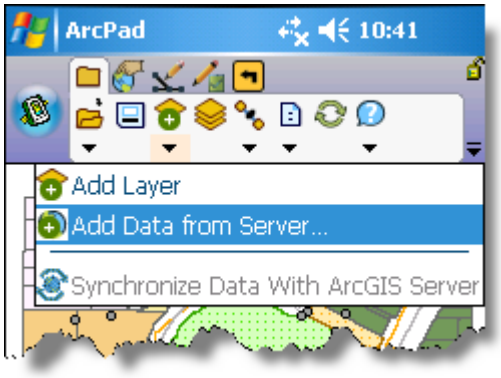
Support for ArcGIS Online Basemaps

You can now open basemaps from ArcGIS Online. Both the Standard and Premium Bing Maps services can be used as basemaps in an ArcPad project.

When using ArcGIS Online basemaps with existing data, you must be sure to add existing data to the ArcPad map first. ArcPad will then reproject ArcGIS Online basemaps on the fly to match the existing data projection. If there is no existing data, you can add an ArcGIS Online basemap to a new map and create a QuickProject using the basemap.

To add an ArcGIS Online basemap to a new map, choose Add Data from Server.



Select one of the available ArcGIS Online services, for example, the ArcGIS World Street Map service.

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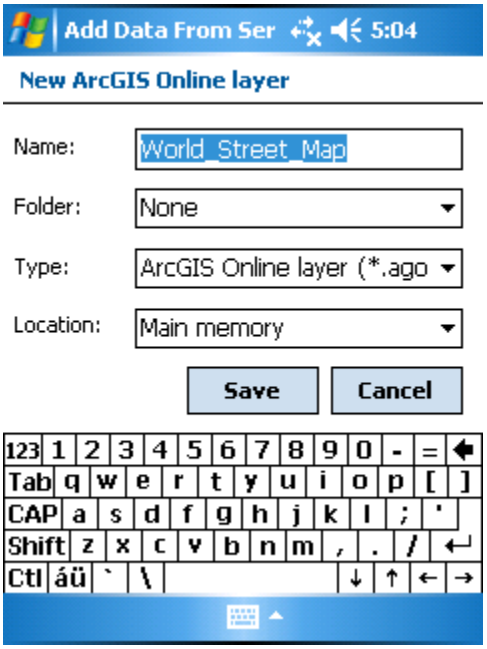
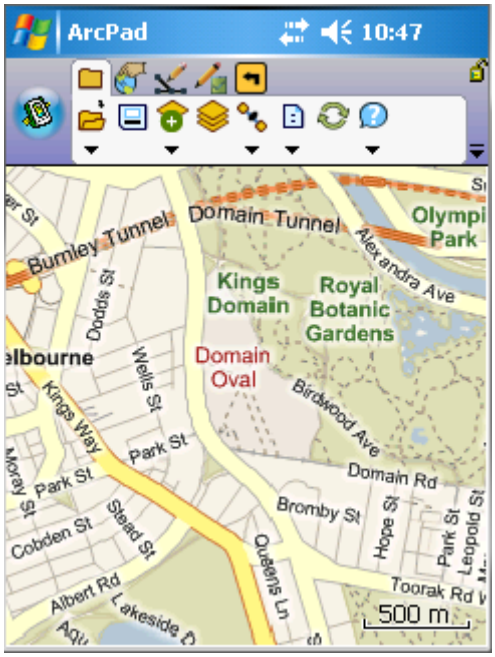


After choosing to save the ArcGIS Online layer, you will be asked whether to add this layer to the map. Answering no allows the ArcGIS Online layer to be saved for later use.

An answer of yes causes the ArcGIS Online layer to be added to the map.



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Performance

Drawing in ArcPad

Whether opening a new map, panning, or zooming, ArcPad responds faster in version 10. New spatial indexing in AXF files improves the response time for editing AXF features, and changes in the way the map is drawn give you more immediate feedback when panning and zooming.

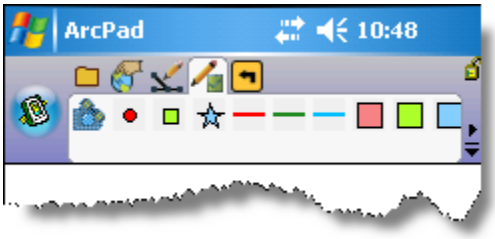
Esri StreetMap

StreetMap now operates in its own memory space, significantly improving the amount of memory available to both Esri StreetMap and ArcPad and ensuring that it can be used successfully on a greater range of Windows® Mobile devices.

QuickCapture

The QuickCapture toolbar is a dynamic toolbar. Its contents are defined by the open layers in the map. With the QuickCapture toolbar, you have a one-click ability to create new features in your maps.

The QuickCapture toolbar for a new QuickProject looks like this:



You can change which tools appear on the QuickCapture toolbar by checking/unchecking symbol categories on the QuickCapture tab on the Table of Contents dialog box. It can have any number of tools. For example, by default, the QuickCapture toolbar for the Riverside sample data looks like this:

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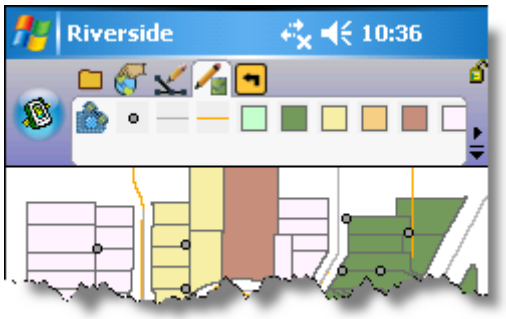
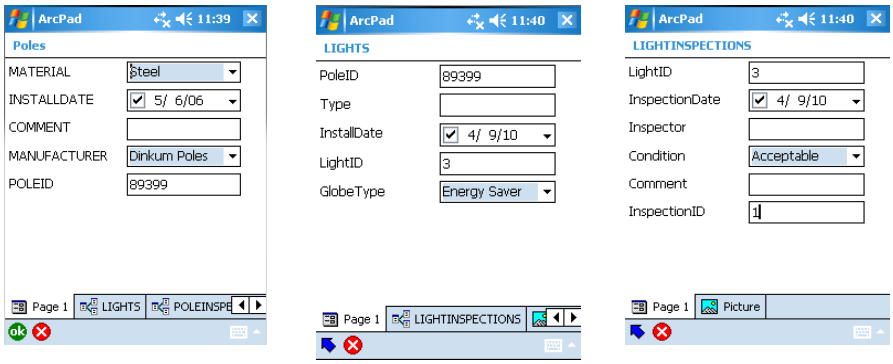
Checking all the parcel types on the QuickCapture tab of the Table of Contents causes the QuickCapture toolbar to change to this:



ArcPad Data Manager for ArcGIS

Custom Forms for Related Tables

When checking out feature classes that have related tables of data, custom forms are now created by the ArcPad Data Manager for both the feature classes and their related tables. The custom forms can be used as is in ArcPad or can be further customized using ArcPad Studio.



Camera and Photos

Incorporating Photos in ArcPad Projects

The ArcPad Data Manager now allows you to specify which fields contain photos and nominate where and how these are stored on the PC and Windows Mobile device. The checkout/check-in process will also move photos to and from the mobile device.

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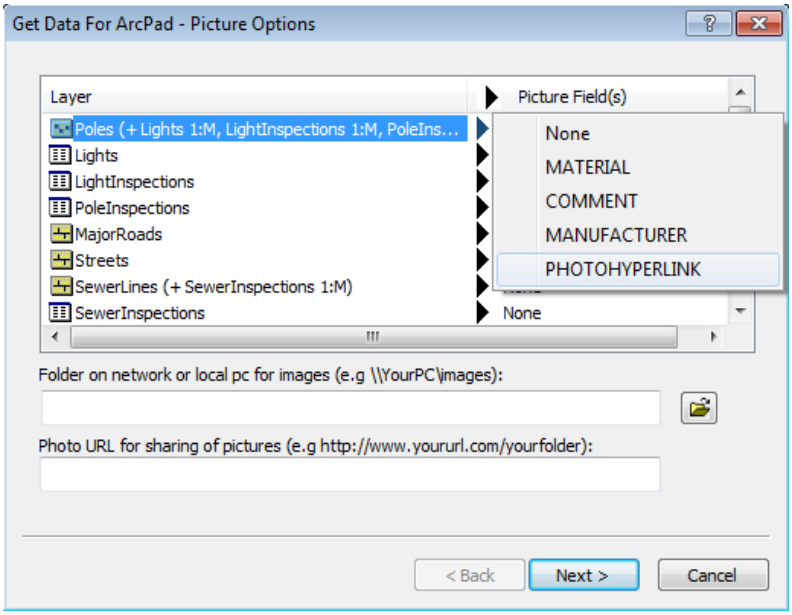
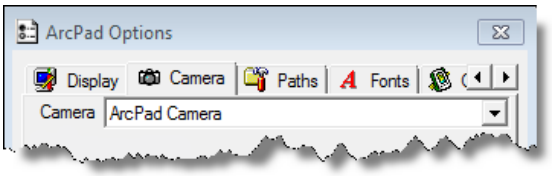


New Camera Module

The new camera module, DirectShow, is the default camera module on all Windows desktop and Windows Mobile devices. This module works on a greater range of hardware and behaves the same on all devices.



The camera is launched within ArcPad either by using the camera buttons or on the QuickCapture toolbar or by choosing to add a photo as an attribute to a feature.

You also have the opportunity to modify the properties of DirectShow, including

- Choosing which camera to use (a must for devices that have multiple cameras)
- Choosing the photo resolution
- Designating a hardware key with which to take photos

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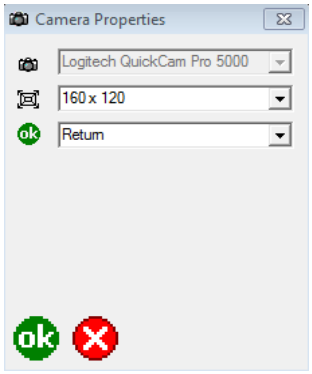
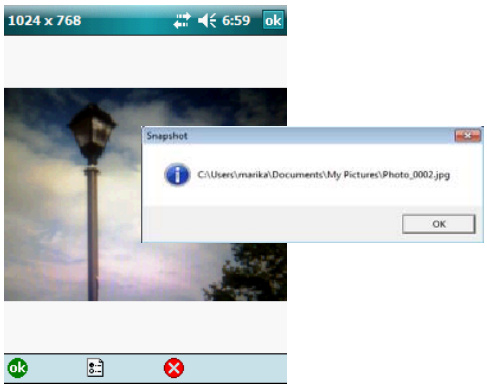
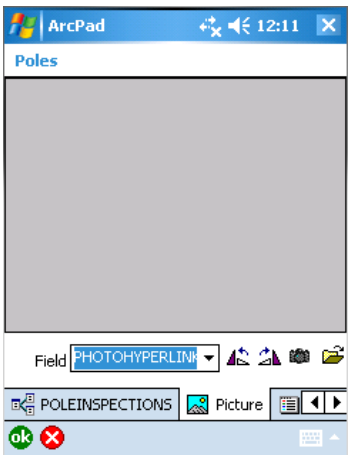


The selected photo resolution will be displayed in the title bar of the photo for reference. To capture the photo, either tap OK or select the designated hardware button.



Hyperlinked Photos

When you nominate fields to contain hyperlinked photos during the Get Data for ArcPad wizard (in ArcMap), ArcPad will automatically show only those fields on the Picture tab of the attribute dialog box.



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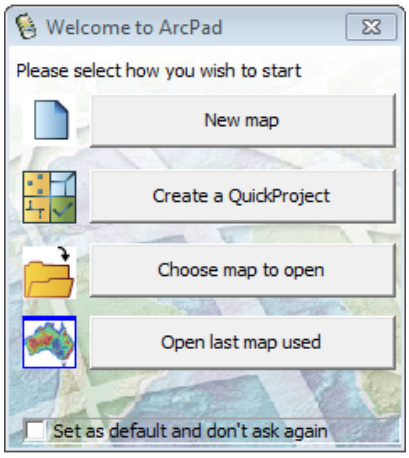
New Ways to Get Started

Startup Dialog Box

The new Welcome to ArcPad dialog box presents four simple choices for getting started:

- New map starts ArcPad with a blank, new map.
- Create a QuickProject launches the QuickProject wizard.
- Choose map to open launches the Open Map dialog box.
- Open last map used opens the last successfully closed map used in ArcPad.

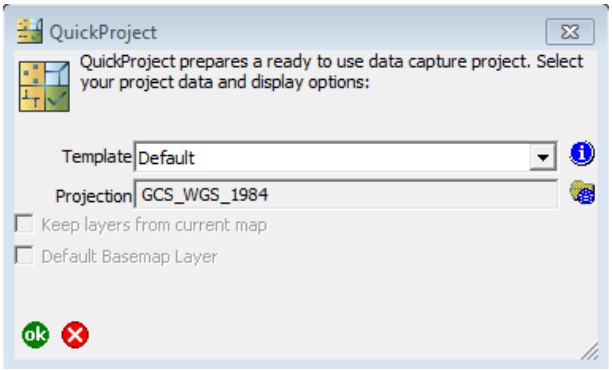
To always use the same option, before clicking it, you should check the Set as default and don't ask again check boxes. The next time ArcPad is started, the preferred start method will launch automatically. The Welcome dialog box can be restored at any time by enabling it in ArcPad Options.



QuickProject Templates

When choosing to start with a QuickProject, you now have a choice to apply a template. You can choose from the sample templates included in ArcPad or create your own.

The default choice (shown below) is a project containing three layers, points, lines, and polygons. Each layer has default attributes of name, category, date, comments, and photo. The project will have an automatically generated unique name.



Choosing a template will create a QuickProject that contains layers based on the template layers instead of the default points, lines, and polygon layers.

You can create your own template by

- Creating your own custom shapefiles (with custom forms and symbology)
- Saving an ArcPad map document (.apm) called Template.apm in the same folder as these shapefiles
- Zipping all these files together and naming the ZIP file with the name you wish to see in the Template drop-down menu in ArcPad
- Adding the ZIP file to the template folder under the ArcPad installation directory

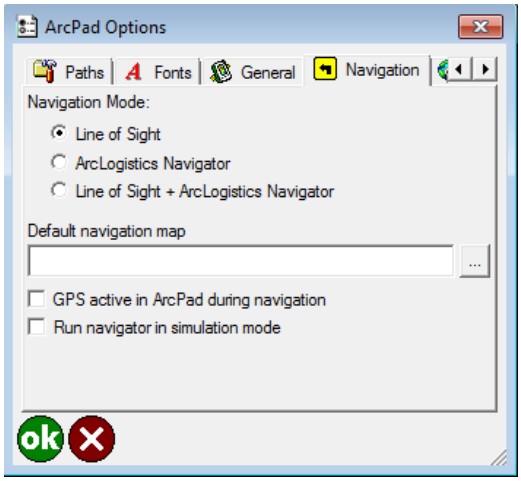
QuickProject to GDB Toolbox Script

The QuickProject to Geodatabase (GDB) toolbox script, previously released on ArcScripts™, is now included in ArcPad. This script can be used to import QuickProjects to a new geodatabase. If a QuickProject is based on the default template, category fields will automatically be converted to coded value domains in the new geodatabase.

Integration with ArcLogistics

If a licensed copy of ArcLogistics Navigator is installed on the same device as ArcPad 10, the ArcPad GoTo tool can be configured to use ArcLogistics Navigator rather than the default Line of Sight navigation in ArcPad.

To configure ArcPad to use ArcLogistics Navigator, you can simply select the application in the Navigation tab of the ArcPad Options dialog box.



To use ArcLogistics Navigator, select the feature you wish to navigate to with existing ArcPad tools and/or tap the GoTo tool . You can select features directly from the map using the GoTo tool on the Browse toolbar or select features first within the advanced Select or Find dialog boxes. On each of these dialog boxes, the GoTo tool appears, and once it is clicked, ArcLogistics Navigator will launch and navigate to that feature.

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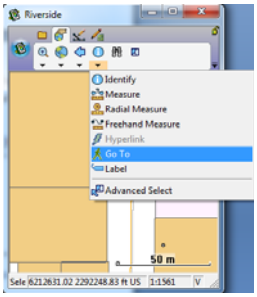

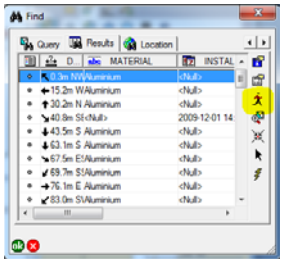

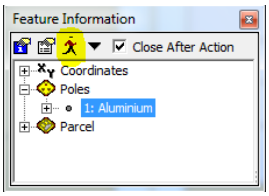

More Information For more information, visit http://resources.arcgis.com/content/arcpad/10.0/about.

About Esri

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A full-service GIS company, Esri supports the implementation of GIS technology on desktops, servers, online services, and mobile devices. These GIS solutions are flexible, customizable, and easy to use.

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Esri software is used by hundreds of thousands of organizations that apply GIS to solve problems and make our world a better place to live. We pay close attention to our users to ensure they have the best tools possible to accomplish their missions. A comprehensive suite of training options offered worldwide helps our users fully leverage their GIS applications.

Esri is a socially conscious business, actively supporting organizations involved in education, conservation, sustainable development, and humanitarian affairs.

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