ArcGIS Pro SDK for .NET: An Introduction to Add-Ins and Configurations

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Agenda

- Introduction – 5 minutes
- Add-In Demos – 10 minutes
- Solution Configurations – 5 minutes
- Configuration Demos – 10 minutes
- Q&A and wrap-up – 15 minutes
Extending Pro

Ways to extend ArcGIS Pro:

• Configure UI through settings and workflow through tasks
• Automate using geoprocessing and Python
• Extend with your own custom tools and workflows with the Pro SDK
ArcGIS Pro SDK for Microsoft .NET

- Two main customization patterns
  - Add-Ins – Develop new tools and functionality, and customize UI
  - Configurations – Deeper customization, branding, start-up experience, streamline UI
- Microsoft .NET – Visual Studio development
ArcGIS Pro SDK for Microsoft .NET

- Templates and tools in Visual Studio, and Pro API access
- Desktop Standards – WPF, XAML, MVVM, LINQ, etc.
- Modern, asynchronous development framework
- Online guides, code samples and other resources
Pro Add-in Files

- Zip-compressed package files
- Easy to share and distribute
- Can be secured

Sample add-in file contents

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Images</td>
<td>File folder</td>
</tr>
<tr>
<td>Install</td>
<td>File folder</td>
</tr>
<tr>
<td>Config.daml</td>
<td>DAML File</td>
</tr>
</tbody>
</table>

Sample contents of an install folder

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CustomAnimation.dll</td>
<td>Application extension</td>
</tr>
<tr>
<td>CustomAnimation.dll.config</td>
<td>XML Configuration File</td>
</tr>
<tr>
<td>CustomAnimation.pdb</td>
<td>VisualStudio.pdb.12.0</td>
</tr>
<tr>
<td>CustomAnimation.xml</td>
<td>XML Document</td>
</tr>
</tbody>
</table>
.NET Development Environment

- Visual Studio 2015 and 2017
  - All editions supported – including free Community Edition
- VSIX packages for installation
- Download and install from the Visual Studio Marketplace
Add-In Demos

- Pro SDK DevLabs
- Build your first add-in
- Create a map identification tool
Solution Configurations

Create a custom, branded UI / UX with ArcGIS Pro
Configurations

- Includes all functionality of an add-in plus
  - Change the application title and icon
  - Change the application splash screen, start page, and about page
  - Conditional customization of the UI

- Packaged within a single, compressed file with a .ProConfigX file extension
  - Available to all logged-on users.
  - By default, placed in C:\Users\<user name>\Documents\ArcGIS\AddIns\ArcGISPro\Configurations
Sample Configurations

Customized:
• Splash screen
• Start up page view
• UI based on a user role / workflow
Configuration Demos

- Configuration project template
- ConfigWithMap sample
- ConfigWithStartWizard sample
Resources

- **SDK landing page** – main resource page
- **GitHub Wiki** – primary documentation site with concept and guide docs, and much more
- **Community Samples** – ready to use code solutions categorized by functional area
- **GeoNet Pro SDK Group** – developer community
- **DevLabs** – easy coding tutorials
- **Training** – instructor-led Esri training course
For Questions and Follow-up

• Come by the **ArcGIS Pro Area** in the Showcase for more demos

• SDK tab on the ArcGIS Pro main page:  
  - pro.arcgis.com

• Pro SDK Questions and Feedback:  
  **ArcGIS Pro SDK Group on GeoNet**
# Pro SDK Sessions

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Technical Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tue, July 10</td>
<td>10:00 am – 11:00 am</td>
<td>ArcGIS Pro SDK for .NET: An Introduction</td>
<td>Room 14 B, SDCC</td>
</tr>
<tr>
<td></td>
<td>4:00 am – 5:00 pm</td>
<td>ArcGIS Pro SDK for .NET: An Introduction</td>
<td>Room 17 B, SDCC</td>
</tr>
<tr>
<td>Wed, July 11</td>
<td>11:15 am - 12:00 pm</td>
<td>ArcGIS Pro SDK for .NET: Introduction to Add-Ins and Configurations</td>
<td>Demo Theater 07 - Expo</td>
</tr>
<tr>
<td></td>
<td>12:15 pm - 1:00 pm</td>
<td>ArcGIS Pro SDK for .NET: Solution Configurations</td>
<td>Demo Theater 08 - Expo</td>
</tr>
<tr>
<td>Thu, July 12</td>
<td>8:30 am – 9:30 am</td>
<td>ArcGIS Pro: Q&amp;A with the Development Team</td>
<td>Ballroom 20 D, SDCC</td>
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<tr>
<td></td>
<td>12:15 pm - 1:00 pm</td>
<td>Beginning ArcGIS Pro SDK Project Development: Tips and Tricks for Troubleshooting</td>
<td>Demo Theater 08 - Expo</td>
</tr>
</tbody>
</table>

**Also** – the ArcGIS Pro Area in the UC Expo – Pro SDK staff available each day, Tuesday – Thursday
Please Take Our Survey on the App

Download the Esri Events app and find your event

Select the session you attended

Scroll down to find the feedback section

Complete answers and select “Submit”
Thank you!

Questions?