Getting Started with ArcGIS Pro SDK Add-Ins and Configurations

Christopher Zent
• Introduction – 5 minutes
• Add-In Demos – 10 minutes
• Solution Configurations – 5 minutes
• Configuration Demos – 10 minutes
• Q&A and wrap-up – 15 minutes
Extending ArcGIS Pro
*Three ways to configure and extend Pro*

**Options:**
- **Configure** UI through settings, and workflows through tasks
- **Automate** using geoprocessing and Python
- **Extend** with your own custom tools and solutions using the Pro SDK
ArcGIS Pro SDK for .NET

Build your own unique tools and workflows
ArcGIS Pro SDK for Microsoft .NET

• Provides the ability to customize ArcGIS Pro
• Customize the Pro UI / UX with add-ins and configurations
• Microsoft .NET – develop in Visual Studio 2015 or 2017
• Releases are in sync with each ArcGIS Pro release
ArcGIS Pro SDK for Microsoft .NET

- Desktop Standards – WPF, XAML, MVVM, LINQ, TAP, etc.
- Modern, asynchronous development framework
- Templates and tools to streamline development
- Online guides, code samples and other resources
- Custom Editing, Map exploration, Data management, Raster management and much more!
Pro SDK Add-Ins

- Single zip file package
- 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>
Many Pro SDK Resources

- **SDK home page** – main resource page
- **Esri Training** – instructor-led Esri training course
- **Documentation Wiki** – primary documentation site with concept and guide docs, and much more
- **Community Samples** – ready to use code solutions categorized by functional area
- **Snippets** – code snippets by functional area
- **GeoNet Pro SDK Group** – developer community
- **API Reference** – full API reference
- **FAQ** – answers to common questions
- **Blog posts** – focused on the Pro SDK
Pro SDK Training

- Extending ArcGIS Pro with Add-Ins – Esri Instructor-led training course on the Pro SDK
- Great way to get a comprehensive introduction
- Online offerings – very interactive and productive
- Esri.com/training
ArcGIS Pro SDK 2.0

New:

- API enhancements
- Styling updates
- Visual Studio 2017 Support
- New code samples and guides
Add-In Demos

- Building your first add-in
- Creating a feature construction tool
- Online resources
Solution Configurations

Create a custom, branded experience with ArcGIS Pro
Solution Configurations

• Configurations
  - Another add-in pattern / template
  - Solution branding of the Pro UI
  - Conditional or role-based customization

• Documentation and Resources
  - ProConcepts
  - ProGuide
  - ConfigurationManager API reference
  - Intro blog posts and videos
Configurations

- Customized:
  - Splash screen
  - Start up page view
  - UI based on a user role / workflow
Pro SDK Add-ins and Configurations

• Similarities
  - Built from SDK project templates
  - Compiled and deployed with the standard double-click installation
  - Both allow for customization of the UI

• Differences
  - Add-in
    - Multiple add-ins per Pro session
  - Configuration
    - One configuration per Pro session – intended for larger, focused solution experience
    - Custom start-up experience – splash screen and startup page, conditional start-up logic, etc.
Configuration Demos

- Configuration project template
- Online Resources
- ConfigWithMap sample
- ConfigWithStartWizard sample
Takeaways

• The Pro SDK is ready for you to extend Pro with custom tools and solutions
• Extensive learning resources
• Start working with Pro SDK 2.0
• We value your feedback!
Pro SDK Technical Workshops – Remaining at UC

**ArcGIS Pro SDK for .NET: UI Design and MVVM**
- Wednesday, July 12, 8:30 am – 9:45 am. Location: SDCC – Room 33 A

**ArcGIS Pro SDK for .NET: Configurations**
- Wednesday, July 12, 1:30 pm – 2:45 pm. Location: SDCC – Room 32 A
Esri Developer Summit Europe

October 24-26 Berlin Congress Center Germany

- Pre-Summit Hands-On Training
  - Introduction to the ArcGIS Python API
  - Introduction to the ArcGIS Pro SDK for .NET
  - Introduction to the ArcGIS API for JavaScript
  - ArcGIS Developer Workshop for Esri Distributors and Esri Partners

- Technical Sessions
  - Over 60 sessions on ArcGIS Runtime, Enterprise, Online, Python, JavaScript, Desktop, and Pro

- User Presentations
- Speedgeeking
- Exhibit and Networking Opportunities for Partners
ArcGIS Marketplace and Pro Add-Ins
A new way to get your Pro Add-Ins into the Marketplace

• Pro add-in sales directly from the Marketplace
• Contact your partner manager for next steps
• Visit Marketplace Area in Showcase
ArcGIS Ideas

• Visit ideas.arcgis.com with your ArcGIS Pro ideas:
  • Vote
  • Comment
  • Submit new ideas

• The ArcGIS Pro team wants your feedback!
  • Regular review
  • Your use case matters
  • Your ideas can result in new features for everyone

Put your Ideas in Motion

Visit the ArcGIS Ideas space on GeoNet
For Questions and Follow-up

• Come by the ArcGIS Pro Area in the Showcase

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

• Pro SDK feedback – czent@esri.com
Please Take Our Survey on the **Esri Events App**!

Download the Esri Events app and find your event

Select the session you attended

Scroll down to find the survey

Complete Answers and Select “Submit”
Thank you!

Questions?