ArcGIS API for Microsoft Silverlight – Advanced Topics

Morten Nielsen (@sharpgis)
Rex Hansen (@rex_hansen)
Agenda

- Introductions and Overview
- Map and layer optimization
- MVVM
- WebMaps
- API Highlights
Map and layer optimization

- Define spatial reference instead of waiting for first layer
- Responsible use of graphics
- Resolution and scale dependency
- Selections with dynamic layers
- Simplify symbols
  - Clustering
- Generalize
- Limit attributes
- DrawMode = OnDemand
Demo: Map and Layer Optimization
• MVVM: Model-View-ViewModel.
• Separate Design, Data and Logic.
• Model: User info, Data, Application state, etc.
• View: Visual Controls, Buttons, Map, Menus etc.
• ViewModel: The “glue” (ie. logic) that ties the view and model together.
• MVVM is not a framework but a “design pattern”.
  - However there are various libraries that provides helper classes. Ex: MvvmLight, PRISM, Caliburn.Micro…
Demo: MVVM
WebMaps

• “Map on the web”
• Author and share
  - ArcGIS Online
  - On-premise portal
• ESRI.ArcGIS.Client.WebMap.dll
  - Document class to load by id or JSON
  - Returns Map control and attached properties
    - Map notes = graphics layer
    - Popups = Map tips, data templates
    - Get raw JSON from
      GetMapCompletedEventArgs.DocumentValues
API highlights

- ArcGIS JSON
  - FeatureLayer, FeatureSet, Renderer, Symbol
- Client-side spatial operations
  - Intersection
  - Projections
- Proxy page
- Debugging
- Concurrent requests
- “Extensions”
Demo

- Spatial Operations
- ArcGIS JSON
- Proxy
- Debugging
- Concurrent queries
- Extensions
More Silverlight sessions!

- **Silverlight - Intro**
  - Thu 10:15 AM – 11:30 AM
  - Room 8

- **Silverlight Viewer - Intro**
  - Thu 1:30 PM - 2:45 PM
  - Room 5 A/B

- **Silverlight Viewer - Add-Ins**
  - Wed 11:00 AM – 12:30 PM
    - Exhibit Hall C (Web Demo Theater)
  - Wed 4:00 PM – 4:45 PM
    - Exhibit Hall C (Web Demo Theater)
More Silverlight sessions!

• Road Ahead - Silverlight
  - Wed 3:15 PM – 3:35 PM
    Room 6 A

• Road Ahead – WPF
  - Wed 12:00 PM – 1:00 PM
    Exhibit Hall C (Desktop Developer Demo Theater)
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