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Getting More out of Your .NET Web ADF Application

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Introduction

- Who are we?
  - Jian Huang
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  - Rex Hansen
- Who are you?
- We will answer questions at the end and tech talk

Please complete the session survey!

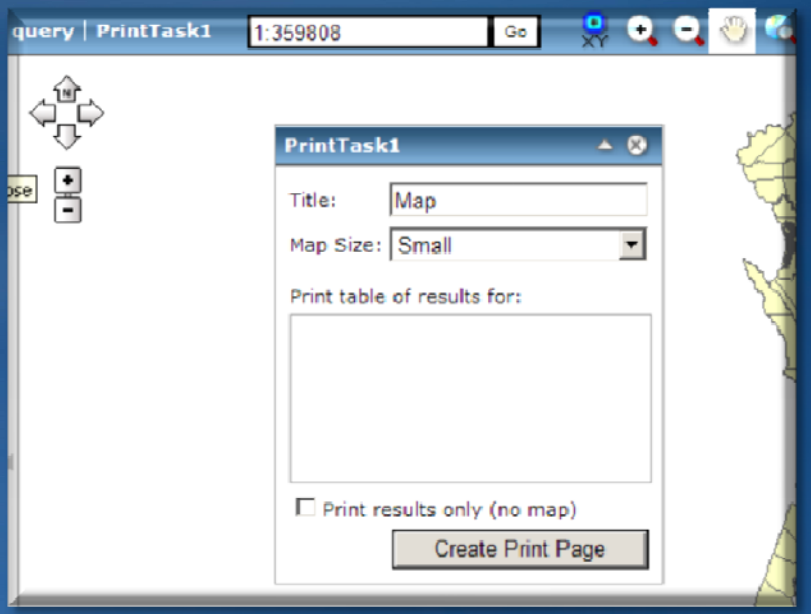
Agenda

- New features in ArcGIS .NET Web ADF 10
- Samples driven from real world use cases
  - Resolve your questions
  - Inspire your ideas
- Patterns, best practices
  - AJAX
  - Web ADF JavaScript
  - GraphicsLayer, Maptips
  - SOAP API
  - Marsh-up

All samples are available at Code Gallery!

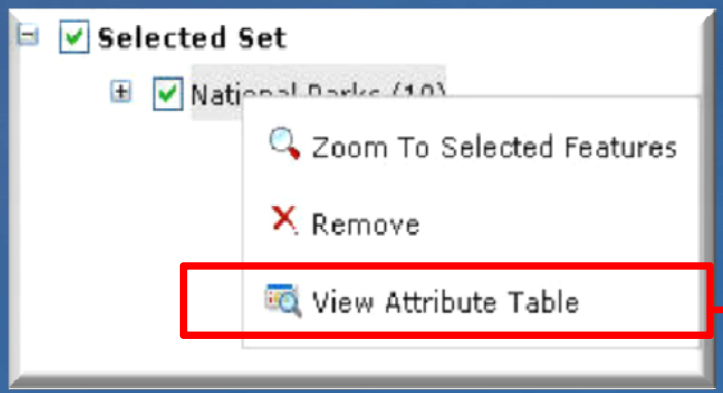
1. New features in ArcGIS .NET Web ADF version 10

- Out-of-the-box application changes
  - Zoom to XY
  - PrintTask: persist map scale or map extent
  - Zoom to scale
- Query standalone/related tables
- Support subtypes and domains
- Support 64-bit Windows platform



2. Postback Manager (1)

- **Indicate to a user that user action is being processed.**
- **Technique:**
  - **Postback Manager**
    - **Use client tier invokingRequest and requestProcessed events to show and hide a progress bar**

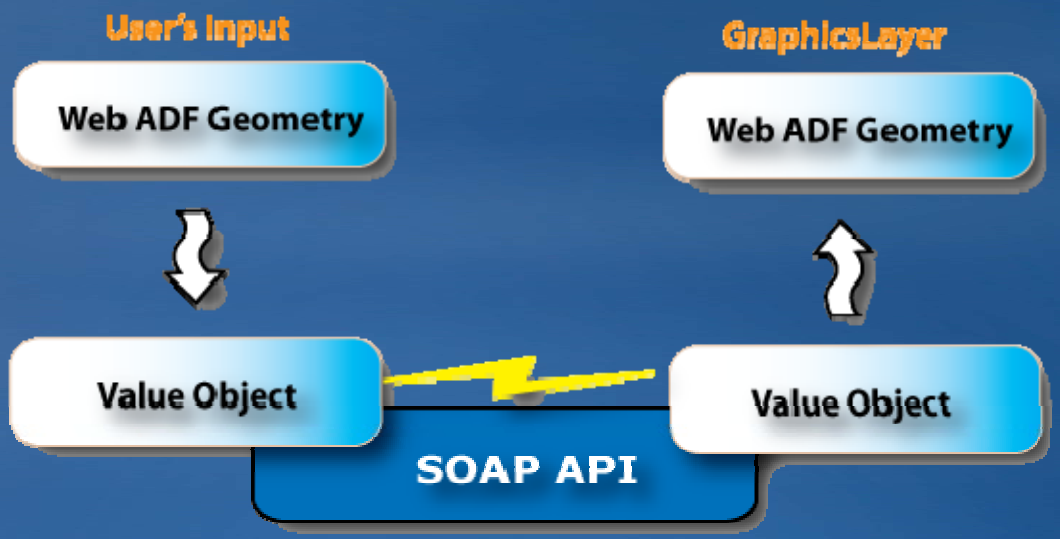


2. Postback Manager (2)

- Push client graphics to server
- Technique:
  - Postback Manager
    - doAsyncRequest sends custom request from browser
    - RequestReceived event handles the request on web tier

3. Converters

- Geometry operations
- **Technique**: how to convert among different data types in order to utilize SOAP API



3. Converters *continued*

- Link Web Geometry, SOAP Value Objects and ArcObjects COM Objects

- The most useful ones are:
  - ESRI.ArcGIS.ADF.Web.DataSources.ArcGISServer.Converter.FromAdfGeometry
  - ESRI.ArcGIS.ADF.Web.DataSources.ArcGISServer.Converter.ToAdfGeometry

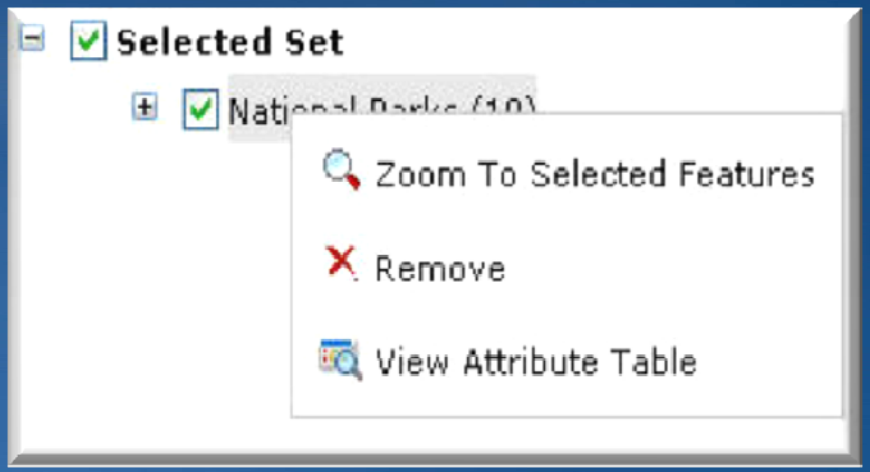
  - ESRI.ArcGIS.ADF.ArcGISServer.Converter.ValueObjectToComObject
  - ESRI.ArcGIS.ADF.ArcGISServer.Converter.ComObjectToValueObject

4. Adding OpenStreetMap layer to Map control

- Overlay third party datasource in Map control
- **Technique**: Web ADF JavaScript, OpenStreetMap

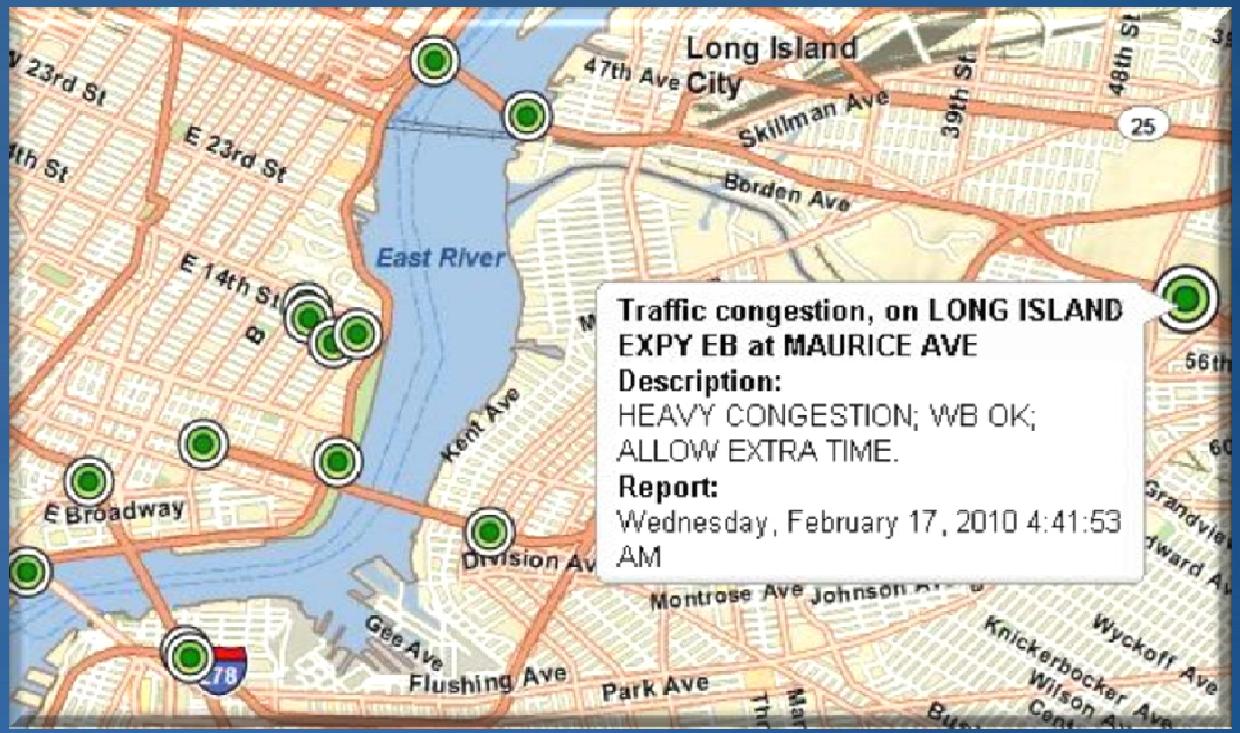
5. Creating and modifying TaskResults

- Associate non-task to TaskResults control
- **Technique**:
  - Use TaskResults.DisplayResults to add results
  - Modify context menus in a TaskResults control



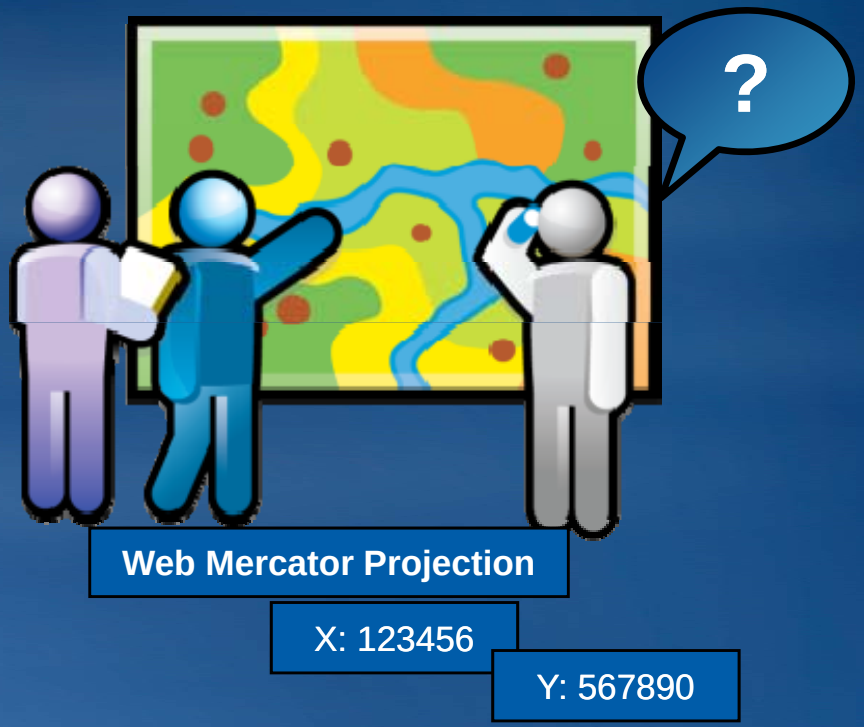
6. Custom Maptips

- **Maptips on demand**
  - **More efficient**



7. Current mouse location in Longitude/Latitude

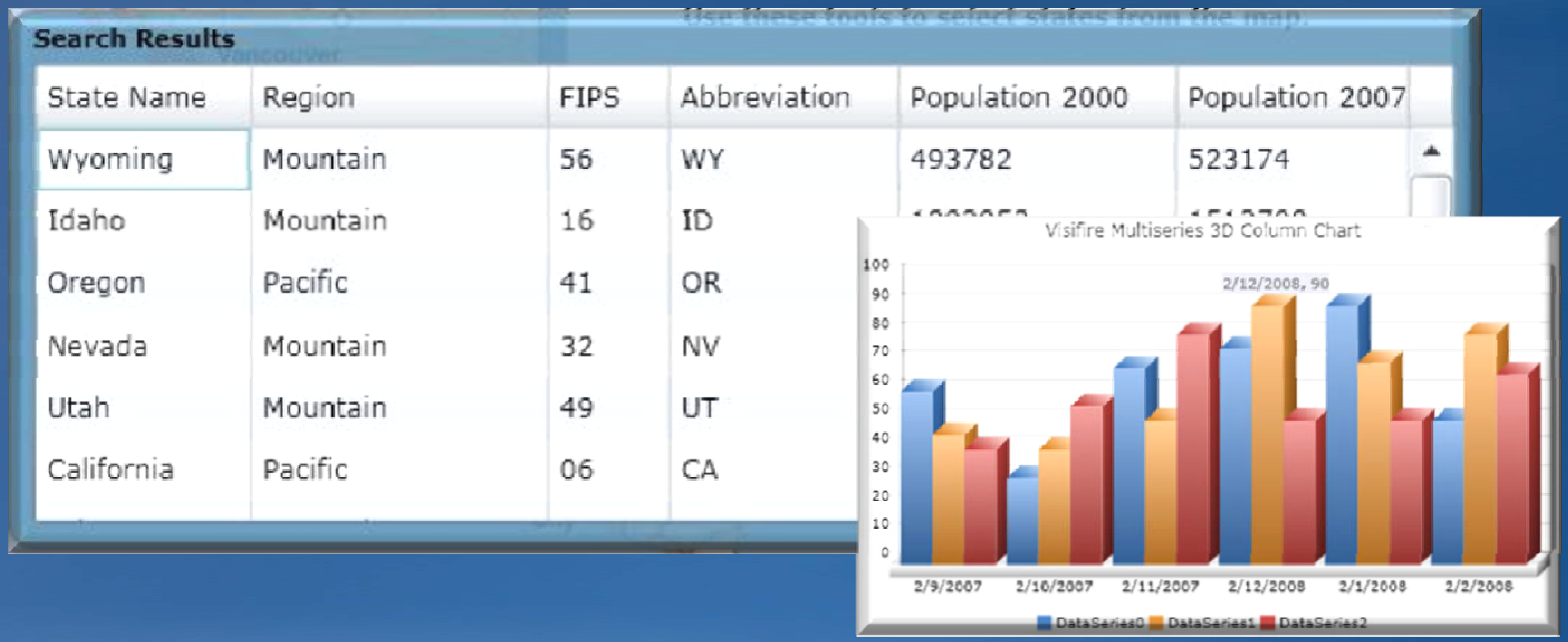
- Coordinate values under current spatial reference
- Convert to Long/Lat
- **Technique**: Geometry service, ASP.NET AJAX, Web ADF JavaScript Library



8. Silverlight integration into web ADF applications

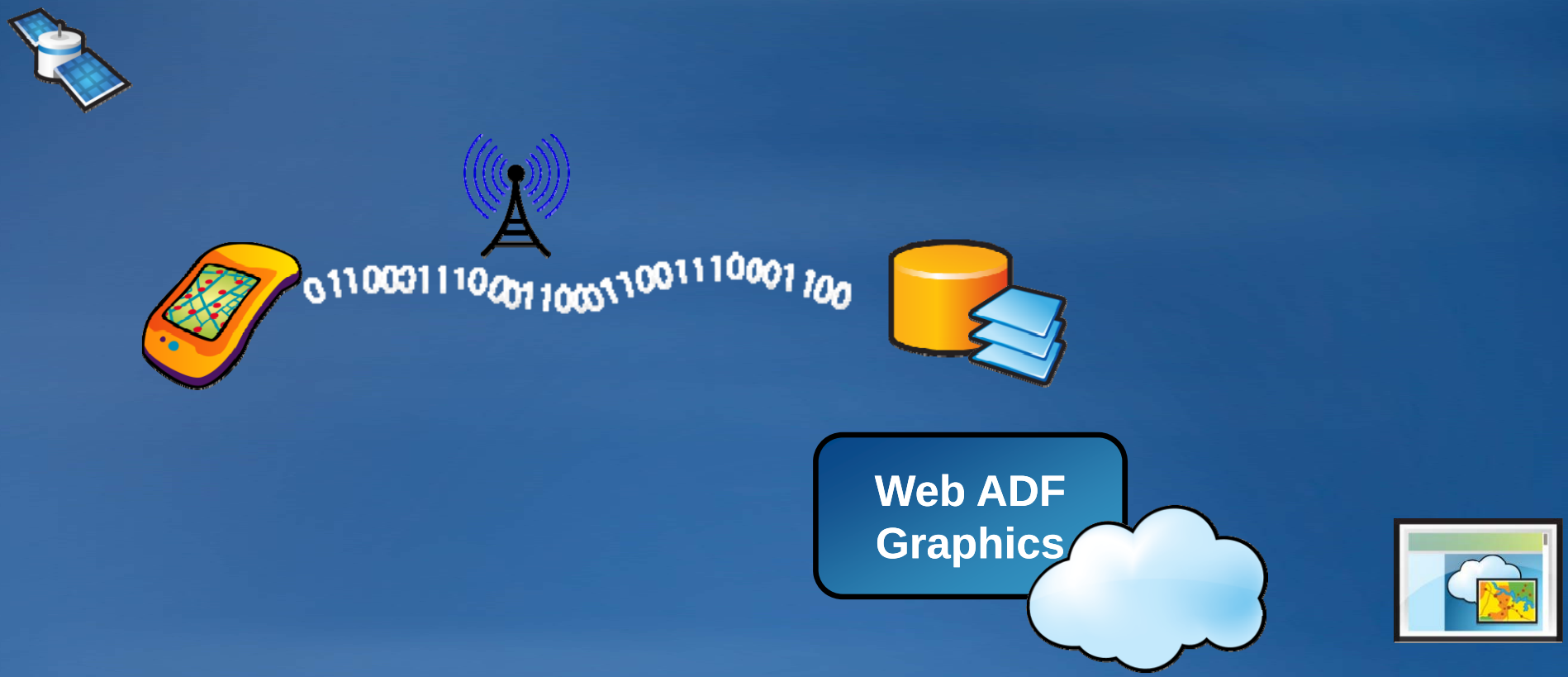
- **Silverlight DataGrid**
  - **User friendly UI**
  - **More interactive**

- **Technique: Microsoft Silverlight**



9. Creative use cases of web tier GraphicsLayer

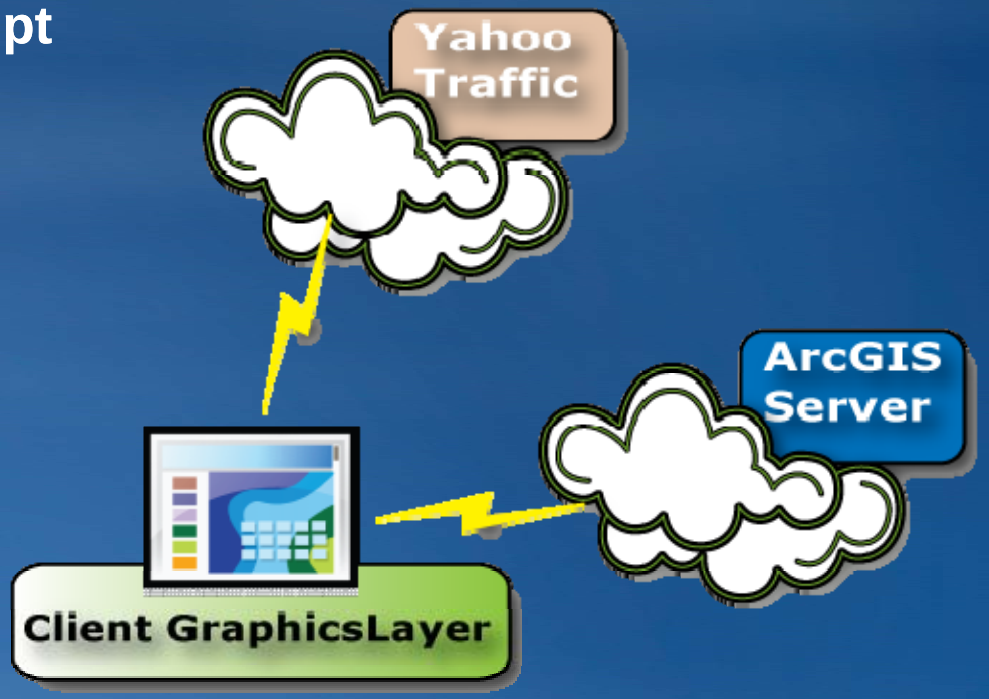
- Dynamic real time GPS position display
- **Technique**:
  - PostbackManager
  - Web-Tier Graphicslayer



10. Creative use cases of client side GraphicsLayer

- **Consume third party web services**
  - Consume Yahoo traffic service to show real time traffic info
  - Manipulate client graphics by Web ADF JavaScript

- **Technique**: Client Graphicslayer
  Web ADF JavaScript



Summary

- Most commonly asked questions from user community
- Patterns, techniques and new functionalities
- Ability to extend and integrate with other components
- All samples are available at Code Gallery

Q & A