

Customizing Graphics and MapTips with the .NET Web ADF

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Introductions

• Who are we?

- ArcGIS Server Product Engineers
- Manage the ArcGIS Server SDK for .NET technologies

• Who are you?

 ASP.NET developers who want to learn more about graphics and map tips in the Web ADF

Schedule





Today we will cover

- Web ADF Graphics on the server and client
- MapTips on the client
- What's new in 9.3.1
- Q & A

We will answer questions during session or at the end?
 – Save all questions until the end
 Please complete the session survey!

Web ADF Graphics

• Web-tier .NET

- Spatially enabled .NET DataTables
- Render on the server using GDI+ or the client using JavaScript graphics

Client-tier JavaScript

- Graphic features and groups
- Callouts and MapTips
- Layer formatting defines symbology and attribute display
- Rendered using browser client technologies - e.g. HTML, SVG, VML

Graphics managed and rendered in multiple tiers



Creating graphics in the Web-tier

- Construct manually
- Query a layer in a resource (QueryFunctionality)
- Generated by ADF Controls (e.g. Tasks)

 Graphics map resources contain graphics layers



Displaying geometry in a graphics layer

- Symbols
 - Based on geometry
 - Each graphic must be associated with a symbol

Renderers

- Apply to many graphics
- Based on feature attributes
- Container for symbols
- Simple, unique value, and value range renderers available

Create custom renderers and symbols!

Enhance performance

- PostbackManager SDK sample, manage AJAX requests behind the scenes
- Use generalize features to reduce retrieval time for queried features
- Use separate thread to process query

Render Web-tier graphics on client

• RenderOnClient = true

- Web-tier graphics layer emitted to client, creates graphic feature group with graphic features
- Layer Definition defines Lay client graphic features
 - Symbology
 - Map tip content



Client graphics

Create a graphic feature group, add graphic features
Use graphic features to "mash-up" other services/data –GeoRSS feed

Create a graduated symbol based on attributes

Best practices

- Limit graphics rendered on the client
 - To maintain appropriate performance
 - Initial rendering of client graphics may be time-consuming
- Create and manage graphics in one tier
 - Avoid client manipulation of graphics if created/managed in Web tier

Client MapTips

Create MapTips client control (JavaScript) Change display based on attribute value

• Delast hower and content template



MapTips templating – New 9.3.1

Create template

Apply application's global template

• Apply layer specific template

MapTip Layout Control

 Code gallery when 9.3.1 is released

Additional information – MapTips control discussion – Common MapTips sample

Summary

Today we covered

- Graphics in the ADF, on the client and server
- MapTips customization on the client
- New in 9.3.1, MapTips templates

Still have questions?

Additional Resources Questions, answers and information...

Tech Talk

 Outside this room right now!

• ESRI Resource Centers – PPTs, code and video



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- Building Applications with ArcGIS Server Using the Microsoft .NET Framework
- Implementing Security for ArcGIS Server .NET Solutions
- Leveraging OGC Capabilities in ArcGIS Server 9.3