ArcGIS Viewer for Flex—An Introduction

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Public sites built with the Viewer
Agenda

• Viewer as part of ArcGIS platform
• What’s new
• Getting started
• Adding content
• Adding functionality
Flex Viewer and ArcGIS platform

Bjorn
ArcGIS Viewer for Flex

- ArcGIS API for Flex
- ArcGIS Online / Portal / Orgs
- ArcGIS Server
ArcGIS Online

ArcGIS Online

Phones

Tablets

Browsers

Users

Groups

Maps

Spreadsheets

WWW

Embedded maps

ArcGIS Server/Desktop

ArcGIS Web services

API
Web maps

Integrating Services

Smartphones

Social Media

Tablets

Websites

Desktops

Browsers

Supporting Visualization, Query, Editing, and Analysis
Which version? What is your role?

- Application Builder
- Compiled Viewer
- Source Code
- Web Application
- GitHub
Flex Viewer 3.4 requirements

Build and configure

- Application Builder
  - Adobe AIR 3.5 or higher
- Flash Player 11.1 or higher
- Web server
  - Read/write access to folder containing Viewer applications
Flex Viewer 3.4 development requirements

- Adobe Flex 4.6 SDK or higher or
- Apache Flex 4.8 SDK or higher
- Flash Player 11.1 or higher
  - Debugger version
- A method to compile
  - e.g. Flash Builder 4.6 or higher
- ArcGIS API for Flex
- ArcGIS Viewer for Flex, GitHub
Esri: ArcGIS for Flex
API and Viewer

- Well established
- Active user community
- Consistent release schedule

Dec 2012
3.1

March 2013
3.2

April 2013
3.3

July 2013
3.4
What’s new since last year?

Bjorn
3.1 improvements (December ‘12)

- Attribute Table widget
- Search in Header
- Related records
- New web formats (CSV, GeoRSS)
- Draggable popup windows
- Attribution (automatic map copyrights)

- Rotation (via config)
- Improved GP
- Updated WMTS
- Metric only scalebar
- RTL/localization improvements
3.2 improvements (March ’13)

- Directions widget
- 6 new locales
  - Danish, Estonian, Hebrew, Latvian, Lithuanian, and Portuguese (Portugal)
- Layer list and TOC includes swatches
- Application Builder
  - WMS, WMTS, and Web tiled layers
  - Right-to-left (RTL)
3.3 improvements (April ‘13)

- Portal updates
- Many bug fixes and enhancements
  - E.g. allow map service without matching feature service to be used in Attribute Table widget

- GitHub issues and the Viewer discussion forum are excellent resources when submitting ideas and suggestions
3.4 improvements

- ArcGIS 10.2
  - Portal for ArcGIS
- Data validation
- Support for setting date format and useutc on date fields (Attribute Table and Edit widgets)
- Search extent can be specified by configuration (Directions, Locator, Header Search)
- Image service and WMS legend support
- Application Builder source code is available on GitHub
Getting started and resources

Heather
Getting started with Application Builder

Download ArcGIS Viewer for Flex

Accept license

Install application
Upgrading is easy
Getting started and resources

Heather
Adding content

Heather
Two ways to access content

1. Web maps
   - ArcGIS Online
   - ArcGIS Online for Organizations
   - Portal for ArcGIS

2. Basemaps and operational layers
   - ArcGIS Online
   - Hosted services or ArcGIS Server services
   - From the web, e.g. KML, CSV, WMS, etc.
Adding web maps

- Works with Portal URL settings
  - ArcGIS Online
  - ArcGIS Online for organizations
  - Portal for ArcGIS
- Sign-in to access content
- Access secure web maps
Adding web maps

- Featured maps
- Publicly accessible
- Search tags
- Browse your web map content
Basemap gallery

Access in apps created using both web maps and operational layers
Basemaps and operational layers
Hosted services
Basemaps and operational layers
ArcGIS Server services

Access to secured services
Basemaps and operational layers

From the web
Adding content

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Adding functionality

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Pop-ups made easier
Web map pop-ups carry over
Widgets

• Functionality defined via widgets
• Many core widgets included
• Configurable
• Build focused web maps with select group of widgets
• Add only if needed
Layout widgets

Customize the layout settings

Widgets introduced this past year
Attribute widget

- Provides tabular view of feature layer’s attributes
- If feature layer is editable, can edit in table
- Dynamic map service or feature service
- Works with relates
- Configurable
Adding functionality-Attributes

Heather

<table>
<thead>
<tr>
<th>Request ID</th>
<th>Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>463562</td>
<td>Dan</td>
</tr>
<tr>
<td>484357</td>
<td>Dan</td>
</tr>
<tr>
<td>479124</td>
<td>Dan</td>
</tr>
<tr>
<td>499842</td>
<td>Dan</td>
</tr>
<tr>
<td>506404</td>
<td>Dan</td>
</tr>
<tr>
<td>472069</td>
<td>Grade</td>
</tr>
</tbody>
</table>
Search in header

- Basic search functionality
- Configurable
- Can search based on geocode locator or map service layers
Adding functionality - Search

Heather
Directions widget

- Directions between 2+ locations
- Route and search configurable
Adding functionality - Directions

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Additional configuration editing

- Additional functionality not provided directly in Application Builder
- Edit configuration tags directly (XML)
- Some examples
  - Search extent
  - Map rotation
  - Directions
Importing a custom widget into Application Builder

- Easy dialog allows importing custom widgets
- Advanced Settings
- Add packaged widget (ZIP)
Adding functionality – 3rd party widgets

Heather
The finished application

Bjorn
Deployment scenarios

- Copy the entire web application’s folder to hosting web server
- Export option in Application Builder provides copy functionality also
- Access application from client browser

```
Local Disk (C:) \ inetpub \ wwwroot \ flexviewers \ Polling
```
Wrap it up

Bjorn
Takeaway points

- Quickly able to create and deploy custom web mapping applications
- No programming experience required
- Easily configurable using either Application Builder, compiled, or source code
- Works with a wide array of layer types
- Vast amount of already-provided functionality
Where can I get more info?

- **Esri**
  - [http://resources.arcgis.com](http://resources.arcgis.com)
    - documentation, forums, samples
  - [http://links.esri.com/flexviewer](http://links.esri.com/flexviewer)

- **Adobe**
Esri training for Web developers

- [http://www.esri.com/training](http://www.esri.com/training)

- **Instructor-Led Courses**
  - Building Web Applications Using the ArcGIS API for Flex (3.x)
  - Migrating to ArcGIS 10.2 for Server
  - ArcGIS for Server: Sharing GIS Content on the Web (10.1)

- **Online Training Seminars**
  - Extending the ArcGIS Viewer for Flex (3.x)
  - Free, one-hour presentation and demos by Esri technical experts
  - Live seminar broadcast on a new topic every month
UC Agenda: Flex Technical Workshops

- **ArcGIS API for Flex – An Introduction**
  - Tues. 7/9; 1:30-2:45 – Rm 15A
  - Wed. 7/10; 1:30-2:45 – Rm 15B

- **ArcGIS Viewer for Flex – An Introduction**
  - Wed. 7/10; 8:30-9:45 – Rm 14B

- **ArcGIS Viewer for Flex – Advanced Topics**
  - Wed. 7/10; 10:15-11:30 – Rm 14B
  - Thurs. 7/11; 1:30-2:45 – Rm 31C

- **ArcGIS API for Flex – Advanced Topics**
  - Wed. 7/10; 3:15-4:30 – Rm 15A
  - Thurs. 7/11; 8:30-9:45 – Rm 15A
QUESTIONS???
Thank you...

Please fill out the session evaluation

First Offering ID:  1238
Second Offering ID:  1346

Online – www.esri.com/ucsessionsurveys
Paper – pick up and put in drop box