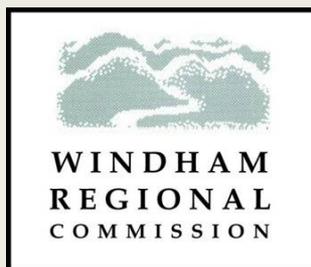


Getting Collector Up and Running

Jeff Nugent

Windham Regional Commission
Brattleboro, Vt



Vermont Geospatial Forum - May 5, 2016

Collector for ArcGIS

- An app that runs on a mobile device
- Can view and collect spatial data
- Managed through ArcGIS On-line
- Can be used “off-line”

Overview

- In ArcGIS:
 - Create database & symbolize
 - Click a bunch of buttons & send to AGOL
- In AGOL (ArcGIS On-Line):
 - Click a bunch of buttons to create a web map
- On your mobile device:
 - Access and/or download web map
 - Collect data
 - Sync
- Back in AGOL:
 - Manage/export data

In ArcMap

The screenshot displays the ArcMap interface. The title bar reads "parking_AGOL_MappingForum.mxd - ArcMap". The menu bar includes File, Edit, View, Bookmarks, Insert, Selection, Geoprocessing, Customize, Windows, and Help. The toolbar contains various mapping tools. The Table of Contents on the left shows two layers: "Parking_Public" and "Parking_Private". The "Parking_Public" layer is expanded, showing five categories: "on-street, paved, not striped" (yellow circle), "on-street, paved, striped" (red circle), "off-street, paved, not striped" (blue circle), "off-street, paved, striped" (green circle), and "off-street, unpaved" (grey circle). The "Parking_Private" layer is also expanded, showing three categories: "off-street, paved, not striped" (blue square), "off-street, paved, striped" (green square), and "off-street, unpaved" (grey square). The main map area is currently blank, with a yellow text box containing the text "Large, high-contrast symbols" centered on the screen. The status bar at the bottom right shows coordinates "469226.073 41009.955 Meters". The Windows taskbar at the bottom includes icons for the Start button, Internet Explorer, File Explorer, Chrome, Excel, Word, and ArcMap. The system tray shows the time "10:25 AM" and date "4/29/2016".

parking_AGOL_MappingForum.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:3,000 Editor Import from ArcView Project...

Drawing Arial 10 B I U

Table Of Contents

Layers

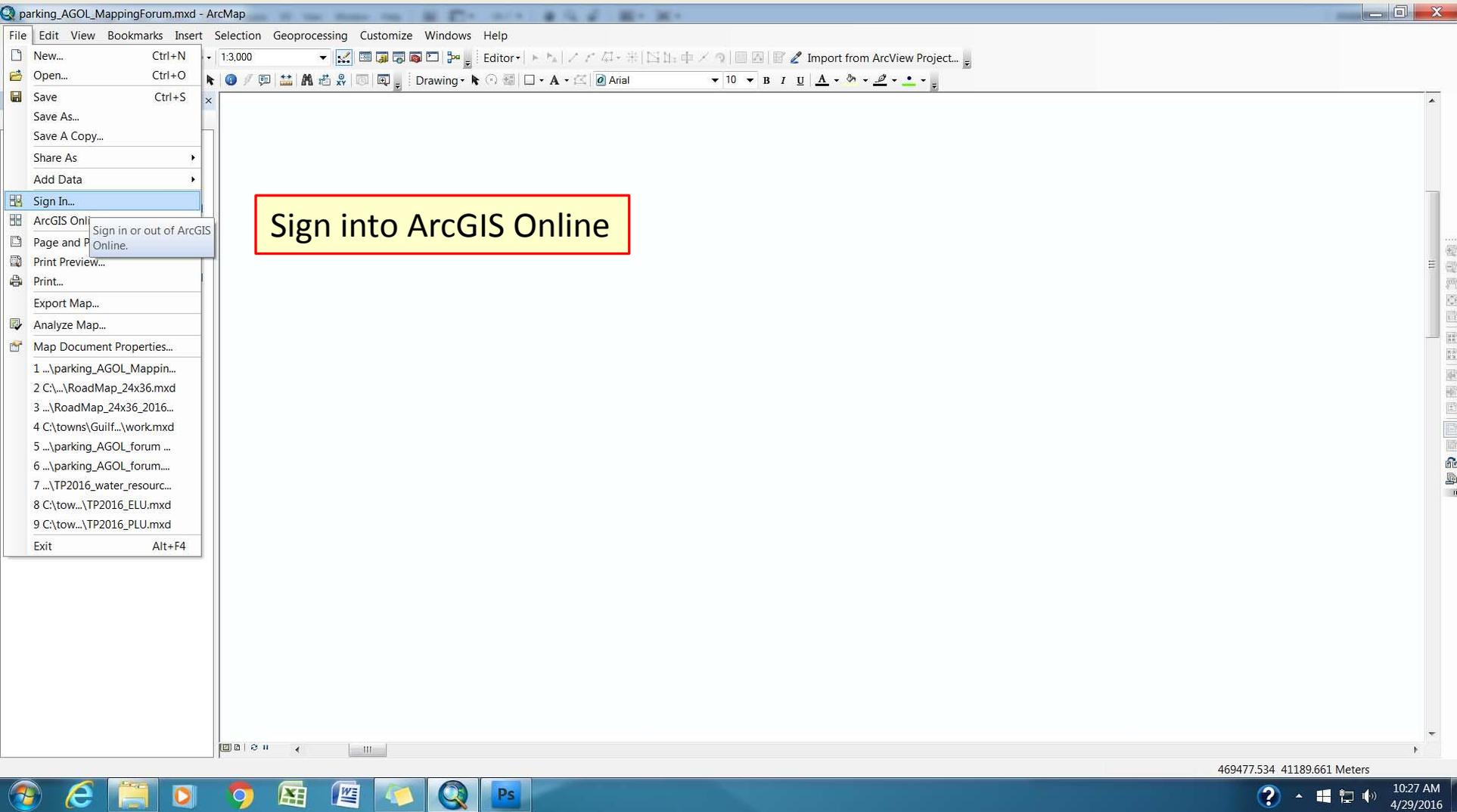
- Parking_Public
 - on-street, paved, not striped
 - on-street, paved, striped
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved
- Parking_Private
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved

Large, high-contrast symbols

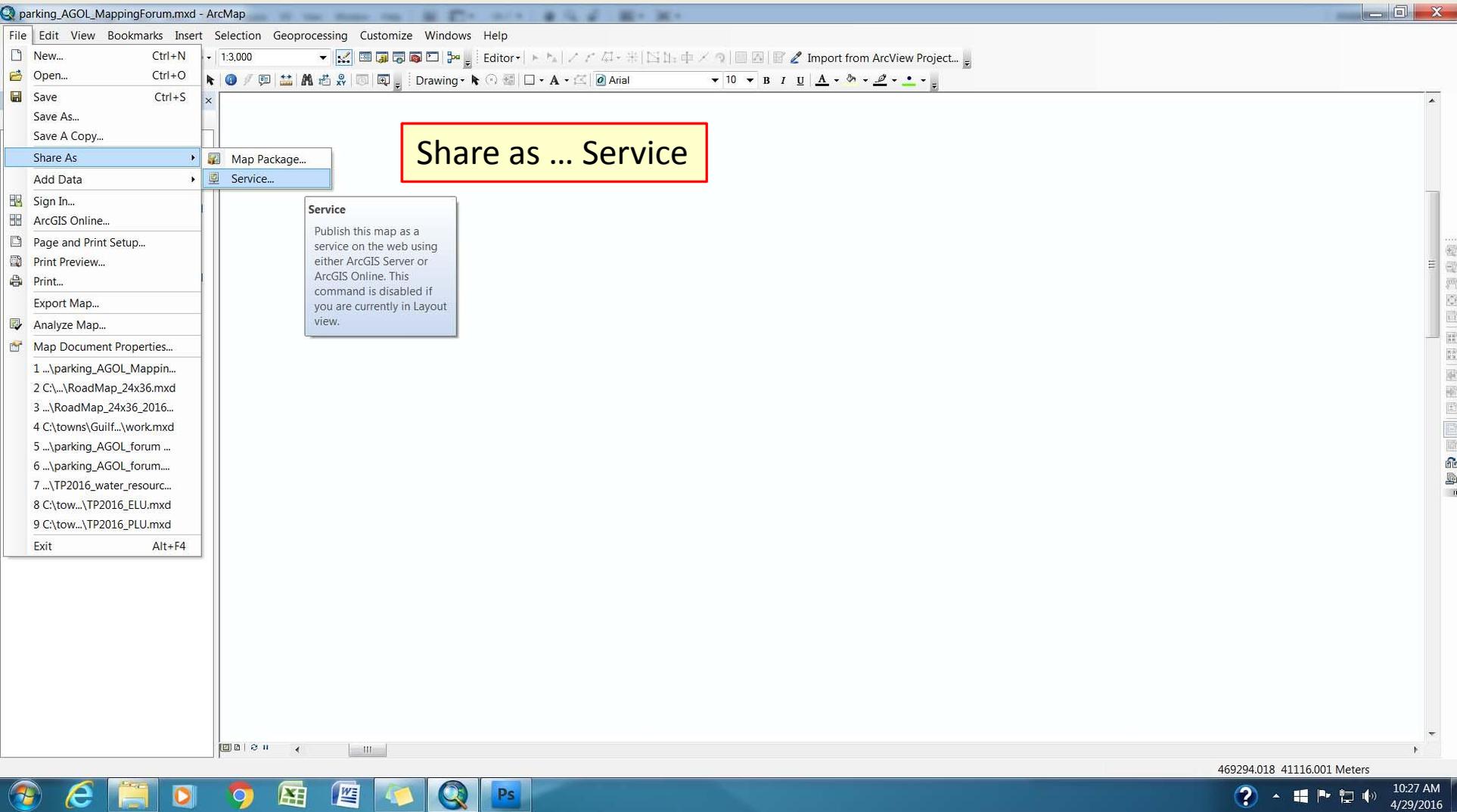
469226.073 41009.955 Meters

10:25 AM 4/29/2016

In ArcMap



In ArcMap



In ArcMap

parking_AGOL_MappingForum.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:3,000 Editor Import from ArcView Project...

Drawing Arial 10 B I U

Table Of Contents

Layers

- ✓ Parking_Public
 - on-street, paved, not striped
 - on-street, paved, striped
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved
- ✓ Parking_Private
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved

Share as Service

Publish a service

Save a service definition file

Overwrite an existing service

[About sharing a service](#)

Next > Cancel

469234.328 40838.505 Meters

10:29 AM 4/29/2016

In ArcMap

parking_AGOL_MappingForum.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:3,000 Editor Import from ArcView Project...

Drawing Arial 10 B I U

Table Of Contents

Layers

- ✓ Parking_Public
 - on-street, paved, not striped
 - on-street, paved, striped
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved
- ✓ Parking_Private
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved

Publish a Service

Choose a connection

My Hosted Services (Windham Regional Commission)

Service name

parking_AGOL_MappingForum

< Back Continue Cancel

Give it a name

469434.354 41064.566 Meters

10:30 AM 4/29/2016

In ArcMap

parking_AGOL_MappingForum.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:3,000 Editor Import Analyze Preview Publish

Connection: My Hosted Services Service Name: parking_AGOL_MappingForum

Parameters

Capabilities

Tiled Mapping

Caching

Advanced Settings

Item Description

Sharing

Choose the capabilities you would like enabled for this service:

- Tiled Mapping
- Feature Access

Under Capabilities:
- Uncheck "Tiled Mapping"
- Check "Feature Access"

Table Of Contents

Layers

- ✓ Parking_Public
 - on-street, paved, not striped
 - on-street, paved, striped
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved
- ✓ Parking_Private
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved

Prepare

0 Errors 0 Warnings

Severity Status

Status: Not Analyzed

No items

Show only unresolved items

469434.354 41064.566 Meters

10:31 AM 4/29/2016

In ArcMap

parking_AGOL_MappingForum.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:3,000

Table Of Contents

Layers

- ✓ Parking_Public
 - on-street, paved, not striped
 - on-street, paved, striped
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved
- ✓ Parking_Private
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved

Service Editor

Connection: My Hosted Services Service Name: parking_AGOL_MappingForum

Parameters

Capabilities

Feature Access

Item Description

Sharing

Capabilities

Choose the capabilities you would like enabled for this service:

- Tiled Mapping
- Feature Access

Under Capabilities:
- Uncheck "Tiled Mapping"
- Check "Feature Access"

Prepare

0 Errors 0 Warnings

Severity Status

Status: Not Analyzed

No items

Show only unresolved items

469434.354 41064.566 Meters

10:31 AM
4/29/2016

In ArcMap

parking_AGOL_MappingForum.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:3,000 Editor Import from ArcView Project...

Table Of Contents

Layers

- ✓ Parking_Public
 - on-street, paved, not striped
 - on-street, paved, striped
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved
- ✓ Parking_Private
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved

Service Editor

Connection: My Hosted Services Service Name: parking_AGOL_MappingForum

Parameters

Capabilities

Feature Access

Item Description

Sharing

REST URL: The REST URL will be defined once the service is published

Operations allowed:

Create Delete Query Sync Update

Properties

<There are no properties for this capability>

Under Feature Access:
- allow all this stuff

Prepare

0 Errors 0 Warnings

Severity Status

Status: Not Analyzed

No items

Show only unresolved items

469434.354 41064.566 Meters

10:32 AM 4/29/2016

In ArcMap

The screenshot shows the ArcMap interface with the Service Editor window open. The Service Editor window is titled "Service Editor" and has a connection to "My Hosted Services" with the service name "parking_AGOL_MappingForum". The "Item Description" tab is selected, showing the following fields:

- Summary (required): parking data, demo
- Tags (required): parking
- Description: for Vt. Mapping Forum
- Access and Use Constraints: go for it
- Credits: WRQ
- Update missing metadata in document based on item description

A yellow callout box with a red border contains the text: "Gotta fill out all this stuff (because it's the Internet, I guess)".

The background shows the ArcMap interface with the Table of Contents on the left, displaying layers for "Parking_Public" and "Parking_Private" with various symbols and colors. The status bar at the bottom indicates "Status: Not Analyzed" and "No items". The Windows taskbar at the bottom shows the time as 10:33 AM on 4/29/2016.

In ArcMap

The screenshot displays the ArcMap software interface. The main window is titled "parking_AGOL_MappingForum.mxd - ArcMap". The menu bar includes File, Edit, View, Bookmarks, Insert, Selection, Geoprocessing, Customize, Windows, and Help. The toolbar shows various editing and navigation tools. On the left, the Table of Contents pane shows a list of layers under "Layers":

- ✓ Parking_Public
 - on-street, paved, not striped
 - on-street, paved, striped
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved
- ✓ Parking_Private
 - off-street, paved, not striped
 - off-street, paved, striped
 - off-street, unpaved

The Service Editor dialog box is open, showing the "Sharing" tab. The connection is "My Hosted Services" and the service name is "parking_AGOL_MappingForum". The "Sharing" section is titled "Share your service with:" and includes the following options:

- My Content
- Windham Regional Commission
- Everyone (public)

Below these options, the "Members of these groups:" section lists the following groups with checkboxes:

- Field work
- Saxtons River watershed
- WRC GIS

A yellow callout box with a red border is overlaid on the right side of the dialog, containing the text: "Share it with your organization and a group".

At the bottom of the ArcMap window, the status bar shows "Status: Not Analyzed", "No items", and "Show only unresolved items". The Windows taskbar at the very bottom shows the system tray with the date and time: "10:34 AM 4/29/2016".

In ArcMap

The screenshot shows the ArcMap interface with the Service Editor dialog box open. The dialog box has a red box around the "Analyze" button with the text "Then click 'Analyze'". Below the dialog box, a table shows the status of the service preparation. A red box highlights the table with the text "Fix errors, ignore warnings".

Service Editor

Connection: My Hosted Services Service Name: parking_AGOL_MappingForum

Parameters
Capabilities
Feature Access
Item Description
Sharing

Share your service with:

- My Content
- Windham Regional Commission
- Everyone (public)

Members of these groups:

- Field work
- Saxtons River watershed
- WRC GIS

Then click "Analyze"

Severity	Status	Code	Description
Medium	Unresolved	10045	Map is being published with data copied to the server using data frame full extent
Low	Unresolved	30003	Layer draws at all scale ranges(4 items)

Fix errors, ignore warnings

Status: Complete

470094.755 40873.43 Meters

10:36 AM
4/29/2016

In ArcMap

The screenshot shows the ArcMap interface with the Service Editor dialog box open. The 'Publish' button is highlighted with a red box and the text "Click 'Publish'". A 'Publishing in progress' dialog box is overlaid on top, showing a progress bar and the text "Server-side post processing ...". Below this dialog box, another red box contains the text "Chill, hang out, grab a cup of coffee....".

Service Editor

Connection: My Hosted Services Service Name: parking_AGOL_MappingForum

Parameters

Capabilities

Feature Access

Item Description

Sharing

Share your service with:

- My Content
- Windham Regional Commission
- Everyone (public)

Members of

- Field
- Saxt
- WRC

Click "Publish"

Publishing in progress ...

Server-side post processing ...

Chill, hang out, grab a cup of coffee....

Severity	Status
Medium	Unresolved
Low	Unresolved

Type	Data Frame
Data Frame	Layers

Status: Complete

5/5 Items

Show only unresolved items

Pos: 10:37 AM 4/29/2016

In ArcGIS Online

The screenshot shows the ArcGIS Online 'My Content' interface. The browser address bar is 'windhamregional.maps.arcgis.com/home/content.html'. The page title is 'My Content'. On the left, there are navigation links: Home, Gallery, Map, Scene, Groups, My Content, and My Organization. A search bar contains 'WRC'. Below the navigation is a blue header with 'My Content'. On the left side, there are 'Folders' (NEW, DELETE, wrcgis (Home), field work, Mapping Forum, Saxtons River) and 'Show' options (All, Maps, Layers, Scenes, Apps, Tools, Files). The main content area has a toolbar with '+ Add Item', 'Create', 'Share', 'Delete', 'Move', and 'Change Owner'. Below the toolbar is a table of items:

Title	Type	Modified	Shared
parking_AGOL_MappingForum	Service Definition	Apr 29, 2016	Not Shared
parking_AGOL_MappingForum	Feature Layer	Apr 29, 2016	Organization

A context menu is open over the 'Feature Layer' item, showing options: View item details, Add layer to map, Add layer to new map with full editing control (highlighted), Add layer to new map, Add layer to scene, and Open in ArcGIS for Desktop. A red box highlights the text: 'For the feature layer: Add layer to new map with full editing control'. The Windows taskbar at the bottom shows icons for Internet Explorer, File Explorer, Chrome, Word, PowerPoint, and Photoshop, along with the system clock showing 10:39 AM on 4/29/2016.

In ArcGIS Online

The screenshot displays the ArcGIS Online web map interface. The browser address bar shows the URL: `windhamregional.maps.arcgis.com/home/webmap/viewer.html?layers=ed288a65b21c4ff4a8427e65865ec487&isAdmin=true`. The page title is "parking_AGOL_MappingForum". The interface includes a top navigation bar with options like "Details", "Add", "Edit", "Basemap", and "Analysis". A search bar is located in the top right corner. On the left side, there is a "Contents" panel with a list of layers: "parking AGOL MappingForum - Parking Public", "parking AGOL MappingForum - Parking Private", and "Topographic". The main map area shows a residential neighborhood with a river, streets such as "W MAIN ST", "N MAIN ST", "LISLE HILL RD", "CHURCH ST", and "BEAVER ST", and a scale bar at the bottom left. A yellow callout box with a red border is overlaid on the map, containing the text: "In the web map... you can change the Basemap". The bottom of the image shows the Windows taskbar with various application icons and the system clock displaying "11:08 AM 4/29/2016".

In ArcGIS Online

The screenshot displays the ArcGIS Online web interface. The browser address bar shows the URL: `windhamregional.maps.arcgis.com/home/webmap/viewer.html?layers=ed288a65b21c4ff4a8427e65865ec487&isAdmin=true`. The page title is "parking_AGOL_MappingForum". The interface includes a top navigation bar with options like "Details", "Add", "Edit", "Basemap", and "Analysis". A search bar on the right contains the text "Find address or place". On the left, a "Contents" panel lists layers such as "parking AGOL MappingForum - Parking Public" and "parking AGOL MappingForum - Parking Private". The main map area shows an aerial view of a residential neighborhood with a river. A red-bordered callout box with the text "Save the map" is positioned over the map. A "Save" dropdown menu is visible above the callout box, with options for "Save" and "Save As". The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the time "11:09 AM" and date "4/29/2016".

In ArcGIS Online

My Content

Home Gallery Map Scene Groups My Content My Organization WRC

My Content

Folders

- NEW DELETE
- wrcgis (Home)
- field work
- Mapping Forum
- Saxtons River

Show

- All
- Maps
- Layers
- Scenes
- Apps
- Tools
- Files

+ Add Item Create Share Delete Move Change Owner

Title	Type	Modified	Shared
Parking, Mapping Forum	Web Map	Apr 29, 2016	Not Shared
parking_AGOL_MappingForum	Service Definition	Apr 29, 2016	Not Shared
parking_AGOL_MappingForum	Feature Layer	Apr 29, 2016	Organization

1 - 3 of 3 results

Back in My Content:

- look at Web Map info
- look at Feature Layer info

11:15 AM 4/29/2016

In ArcGIS Online

Parking, Mapping Forum

windhamregional.maps.arcgis.com/home/item.html?id=afb3a41207324a8aa4bb8306e2b335ea

Home Gallery Map Scene Groups My Content My Organization WRC

Parking, Mapping Forum



parking
Web Map by wrccgis
Last Modified: April 29, 2016
(0 ratings, 0 views)
Facebook Twitter

OPEN SHARE EDIT DELETE MOVE CHANGE OWNER USAGE

Description

Map Contents

parking_AGOL_MappingForum - Parking_Public:
http://services2.arcgis.com/3xVssd0FD416APnB/arcgis/rest/services/parking_AGOL_MappingForum/FeatureServer/0

parking_AGOL_MappingForum - Parking_Private:
http://services2.arcgis.com/3xVssd0FD416APnB/arcgis/rest/services/parking_AGOL_MappingForum/FeatureServer/1

Imagery:
http://services.arcgisonline.com/ArcGIS/rest/services/World_Imagery/MapServer

Properties

Shared with	The item is not shared.	
Tags	parking	
Credits		
Size	3 KB	
Delete Protection	Disabled	
Save As	Enabled	
Offline Mode	Enabled	
Extent	Left: -72.87	Right: -72.87
	Top: 42.87	Bottom: 42.87

Application Settings Routing, Measure Tool, Basemap Selector, Find Location By Address

Offline Mode should be Enabled



In ArcGIS Online

parking_AGOL_Map

windhamregional.maps.arcgis.com/home/item.html?id=ed288a65b21c4ff4a8427e65865ec487

Source: Feature Service
Last Modified: April 29, 2016
★★★★★ (0 ratings, 1 view)

Facebook Twitter

OPEN SHARE EDIT DELETE PUBLISH MOVE CHANGE OWNER USAGE METADATA EXPORT

Description

for Vt. Mapping Forum

Access and Use Constraints

go for it

Layers

Parking_Public
Parking_Private

Properties

Shared with	Organization, WRC GIS
Tags	parking
Credits	WRC
Size	67 KB
Delete Protection	Disabled
Extent	Left: -180 Right: 180 Top: 90 Bottom: -90
Editing	Editors can add, update, and delete features.
Export Data	Disabled
Sync	Enabled
Track Edits	Disabled

Editing and Sync should be Enabled

Comments (0)

Add a Comment

11:17 AM
4/29/2016

In Collector



90% 12:03 PM

All Maps 3



Parking, Mapping Forum

Apr 29, 2016 | WRC GIS admin Download



Wilmington parking

Synced : 12/3/15 3:39 PM Sync



Erosion Bratt area

Downloaded : Mar 9, 2016 Sync

Open map, or download

Maps that have been downloaded can be synced.

In Collector



90% 12:04 PM

Collector
ALL



All Maps

3



Parking, Mapping Forum

Apr 29, 2016 | WRC GIS admin

Download



Wilmington parking

Synced - 12/3/15 3:39 PM

Sync



Erosion Bratt area

Downloaded: Mar 9, 2016

Sync

Choose basemap

Imagery

On device: 6MB

Imagery with Labels

On device: 441MB

Topographic

On device: 12MB

Download a new basemap

Imagery

Basemaps previously downloaded.

Download basemap that was chosen in ArcGIS Online.

In Collector



90% 12:04 PM

Work Area

Choose your work area



Choose the extent of the basemap image.

CHOOSE MAP DETAIL

In Collector



90% 12:05 PM

<  Map Detail

Choose the map detail you require

BUILDING 1,100

Zoom in to choose the level of detail.

11MB

It can get big...

CHOOSE WORK AREA

DOWNLOAD

In Collector



88% 12:15 PM

Parking, Mapping Forum



Collecting data.

+

Collect New

Filter

- on-street, paved, not striped
Parking_Public
- on-street, paved, striped
Parking_Public
- off-street, paved, not striped
Parking_Public
- off-street, paved, striped
Parking_Public
- off-street, unpaved
Parking_Public
- off-street, paved, not striped
Parking_Private
- off-street, paved, striped
Parking_Private
- off-street, unpaved
Parking_Private

In ArcGIS Online

The screenshot shows a web browser window displaying an ArcGIS Online item page. The browser's address bar shows the URL: `windhamregional.maps.arcgis.com/home/item.html?id=ed288a65b21c4ff4a8427e65865ec487`. The page title is "parking_AGOL_MappingForum". The item name is "parking data, demo", which is a "Feature Layer (Hosted) by wrcgis". It was last modified on April 29, 2016, and has 0 ratings and 1 view. The "EXPORT" menu is open, showing options: "Export to Shapefile", "Export to CSV file", "Export to FGDB", "Export to Feature Collection", and "Export to GeoJSON". A red box highlights the text "Export your data here" in the center of the page. The "Properties" section shows the item is shared with "Organization, WRC GIS", has a size of 67 KB, and is disabled for delete protection. The extent is defined by coordinates: Left: -180, Right: 180, Top: 90, Bottom: -90. The Windows taskbar at the bottom shows the time as 11:47 AM on 4/29/2016.

windhamregional.maps.arcgis.com/home/item.html?id=ed288a65b21c4ff4a8427e65865ec487

Home Gallery Map Scene Groups My Content My Organization WRC

parking_AGOL_MappingForum

parking data, demo
Feature Layer (Hosted) by wrcgis
Source: Feature Service
Last Modified: April 29, 2016
0 ratings, 1 view
Facebook Twitter

OPEN SHARE EDIT DELETE PUBLISH MOVE CHANGE OWNER USAGE METADATA EXPORT

- Export to Shapefile
- Export to CSV file
- Export to FGDB
- Export to Feature Collection
- Export to GeoJSON

Description

for Vt. Mapping Forum

Access and Use Constraints

go for it

Layers

Parking_Public
Parking_Private

Properties

Shared with	Organization, WRC GIS
Tags	parking
Credits	WRC
Size	67 KB
Delete Protection	Disabled
Extent	Left: -180 Right: 180 Top: 90 Bottom: -90

Editing
Export Data Disabled
Editors can add, update, and delete features.

11:47 AM
4/29/2016

Tips

- Use a Geodatabase:
 - Domains, become pull-down options in Collector
 - Make the domain code the same as the value (e.g. “excellent” = excellent, not “1” = excellent)
 - Allows for default values
- Consider a single field for data collection:
 - One value that includes expected combinations of other attributes
 - Collect attributes for just one field on-site, then populate the remainder in the office

Tips

- Delete old maps/basemaps from Collector:
 - Click on your device's Menu icon, then Manage
 - In upper left corner; delete map first, then basemap
- Good for a few features with many attributes
 - Wasn't efficient for many spaces in a parking lot