ArcGIS Enterprise 10.7 und 10.7.1: Neue Funktionen

Matthias Schenker
Things to consider - Updated product lifecycle

• Starting with 10.7, ArcGIS Enterprise releases will be either:
  - Short term support: 3 years of support including 1.5 years of patches [10.7]
  - Long term support: 6 of support including 4 years of patches [10.7.1]
• All previous versions will remain long term support

• When planning your upgrades, take these into consideration
  - Are you updating frequently (every year or two?)
  - Or do you need to choose a version and stay there for a longer time period?
Mapping

**Key enhancements:** making it easier to understand patterns in larger datasets and relationships within datasets using out of the box tools.
Feature binning
Dynamic visualization of large datasets

• Use server-side rendering to quickly and easily aggregate data into bins
• Helpful for very large and very dense point datasets
• Understand your data and see it dynamically adjust as you pan and zoom
• New for map services published from your own databases (2.4 and 10.7.1)
Feature Binning
Waterquality in Europe
Analysis

**Key enhancements:** building a complete platform for spatial data science; delivering new tools for big data analysis and deep learning.
ArcGIS Notebook Server
Hosts Python notebooks in ArcGIS Enterprise

- Automate analysis and administration
- Open up access to a powerful data science platform
- Code with the Python API and ArcPy
- Isolate each author’s workspace in Docker containers

Comes with a rich gallery of sample notebooks to illustrate workflows
ArcGIS Notebook Server
Hosts Python notebooks in ArcGIS Enterprise

Fully integrated with your Enterprise portal:
- Users are granted notebook privileges
- Add and reference portal items from within your notebook
- Share notebooks with other users within your portal

Comes with a rich gallery of sample notebooks to illustrate workflows
Administration

**Key enhancements:** making it easier to manage users and licenses, automate notifications of events, and make your deployment more efficient.
Easier ArcGIS Enterprise Licensing

- Licensing on My Esri
- Installing and upgrading
- Improved user administration
- Improved license management

- Single portal json file for user types and applications
- No more portal Software Authorization Wizard
Improved user license management and user administration

• When adding members, can specify default properties & assign licenses
Improved user license management and user administration

- When adding members, can specify default properties & assign licenses
- Enhanced filtering when managing users and licenses:
  - Role
  - User Type
  - Groups (coming soon)
Introducing webhooks
Automate notifications based on portal actions

An action occurs.
- Something is published
- A user creates a new account
- An item is deleted

The webhook is triggered.
- Delivers JSON description of event
- Relevant info fields

Your platform of choice kicks in.
- IFTTT
- Integromat
- Microsoft Flow

It performs an action.
- Emails you
- Posts in Slack
- Alexa announces it at the dinner table (maybe not)
Webhooks
Notification email on updates
Shared instance pool

A game changer for service performance in ArcGIS Enterprise
• Conserve memory and power usage from unused instances... without performance impact

• Isolate high-volume services in dedicated pools

• Reduce administrative overhead of maintaining separate pools for all services

Shared instance pool
New at 10.7

6 ArcSOCs

Participants:
MapService2
MapService3
MapService4
FeatService1
FeatService2
FeatService3
Data

Key enhancements: supporting offline workflows, data integrity and quality & improvements to search, sharing, and collaboration.
Hosted feature layer views
New option for drawing an area of interest

- Views stay connected to your source data but can have different:
  - Editing settings
  - Sharing settings
  - Symbology

- Expose only a subset of your data using any of these definitions:
  - Area of interest (new!)
  - Feature definition
  - Field definition
Publishing

**Key enhancements:** new options for making your data widely accessible to others, new features and functionality when publishing from ArcGIS Pro.
New in publishing

1. Publish services from ArcGIS Pro to a standalone (unfederated) ArcGIS Server

2. Publish OGC services from ArcGIS Pro
   - WMS, WFS, WCS, KML

3. Replace vector tile layer (with enhancements at 10.8)

4. Publish feature classes, tables, and imagery in bulk
Bulk publishing
Quickly and easily create web services from your own data stores

- Creates layers, en masse, from user-managed storage: databases, folders
- Makes data from your own sources easily accessible across your organization: 10s, 100s of layers
- Layers (map and feature) will by default be read-only and use shared instances
Questions ?