













Presented by David Jacob, Esri Michelle Kuiee, OSIsoft

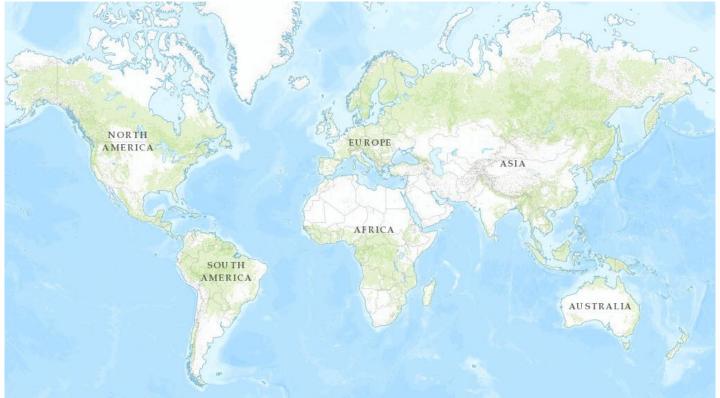


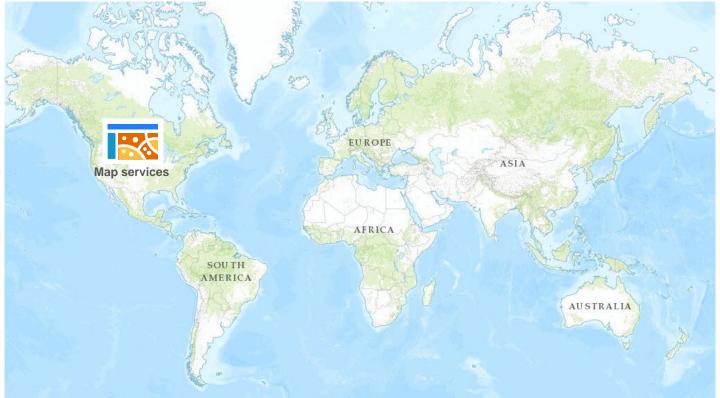






Feature Services





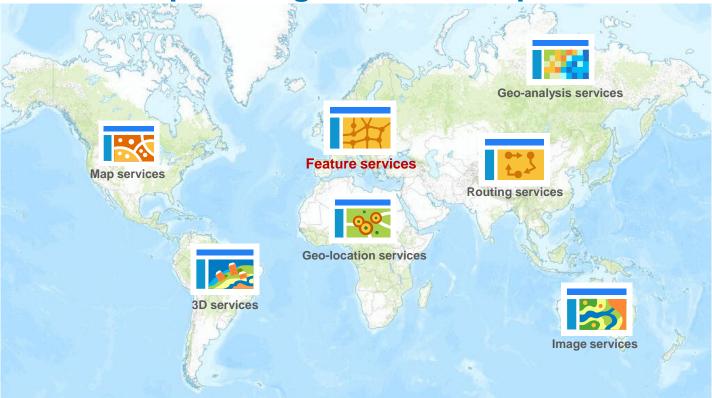












Feature Services

- Deliver spatial features to client applications
- RESTful (http:...?give-me-some-map-data)
- Follows a well-known Esri specification
- Contains one or more layers (or tables)
- Capabilities
 - Spatial and attribute queries
 - Web editing of features
 - Offline, disconnected data capture and synchronization

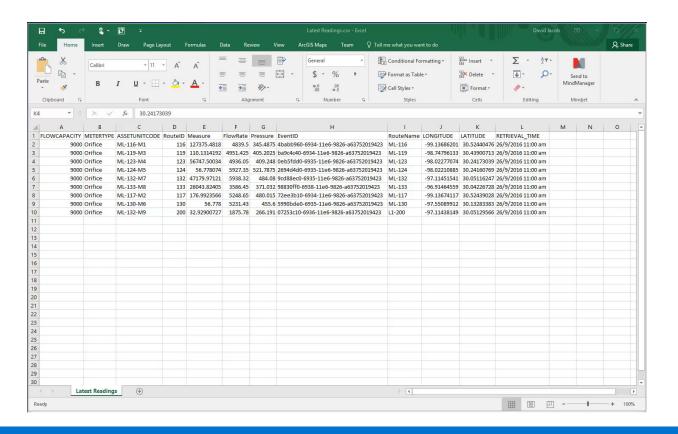


Feature Services: Sources

- ArcGIS Online (Esri's SaaS platform)
- Portal for ArcGIS
- Enterprise databases such as Microsoft SQL Server, SAP HANA
- Partner implementations



Feature Services: Demo



Feature Services: Clients

- Web mapping applications
- Professional GIS applications
 - ArcGIS Pro
 - ArcMap
- Focused applications
 - Collector for ArcGIS
 - Explorer for ArcGIS
 - Operations dashboard for ArcGIS
 - Survey 123





Collector for ArcGIS









ArcMap



Web App Builder for ArcGIS



Operations Dashboard for ArcGIS

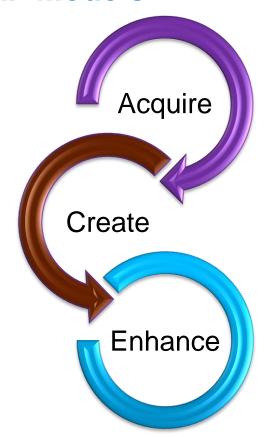


Integrator Utilitization

Use ArcGIS Feature Services to Build AF Models

 21% of survey respondents report full AF adoption

 75% report asset data in ArcGIS



Services

Administration **▼**

Tools

Help▼

▲ OSI\mkuiee

home / tools / extractor

PI Asset Extractor for Esri ArcGIS

Desktop edition also available for download **①**

Load features

Read assets automatically from a Feature Layer URL

This should be an address to an ArcGIS Feature Layer within a MapServer or FeatureServer.

The address can include an Esri-defined query to restrict elements. For example, if you are extracting oil well data, you might want to restrict the query to show only those wells that are located in a particular state or region.

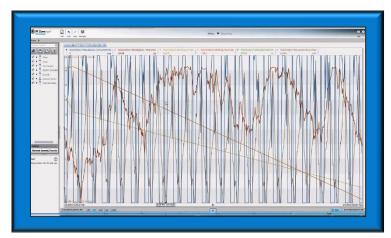
Address https://services.arcgis.com/SDRiK3IojFEsZQ2z/arcgis/rest/services/Haynesville_Production/FeatureServer/0

Authenticate necessary for non-public map layers

No features loaded yet

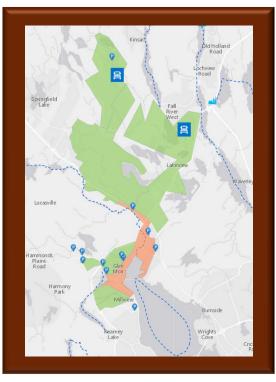
Apply Next

Publish and Update a New Feature Service





Integrator creates Feature Service and all orchestration objects in ArcGIS GeoEvent Extension- updates values from PI System data.





PI Integrator for Esri ArcGIS

Services

Administration **▼**

Tools

Help▼

home / services / BethTest1_changenamefield / DMA District / connect-wizard

1. Feature Service Environment 2. Create Feature Service 3. Configure GeoEvent Extension 4. Advanced Settings 5. Summary

Choose where you would like to host your features 3:



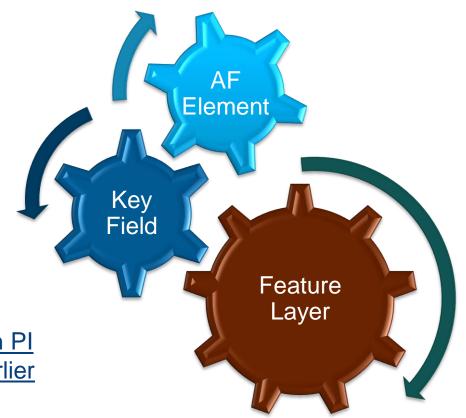




Decorate an Existing Feature Service

I want to add PI Server Data to an existing Feature Layer

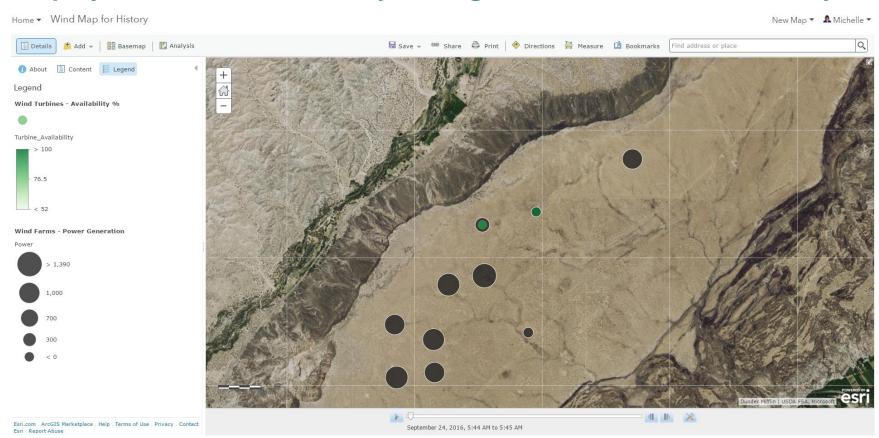
YouTube video demonstrating how with PI Integrator for Esri ArcGIS 2015 and earlier





Future - 1Q2017

Replay PI Server Data History through Time Enabled Feature Layer*

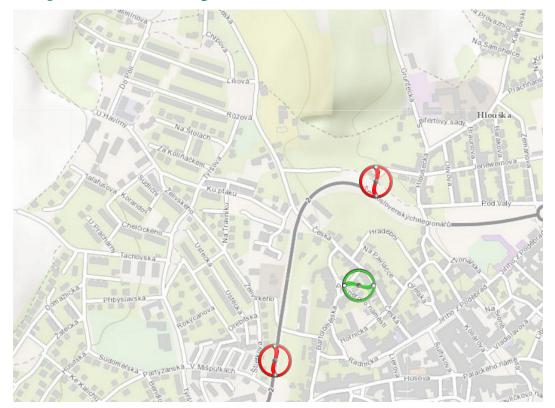


Replay PI Server Data History through Time Enabled Feature

Layer*



Update PI System when ArcGIS Data is Updated*





Field worker calls in location and status of asset

PI Connector for ESRI CatCanyonWells Configuration Data source description (optional) Oil & Gas Wells in Cat Canyon CA Please provide the link to the feature service layer: http://services.arcgis.com/SDRiK3lojFEsZQ2z/arcgis/re Please specify AF asset update interval in the unit of hours: 24 Please specify the offset to *Forecast release 1Q2017 Display all the fields available on this layer Click on the button above and select a unique field from below to name your element All Fields Unique Field APINumber AssetName ActiveWell > < CountyName FieldName LeaseName OBJECTID OperatorNa Please specify template name for this feature service layer, if not, the default value below will be used. Wells Layer0

Updates
PI System with
data from ArcGIS
on a schedule

Save Cancel

For More Information About Next Release

- Product Expo
 - Esri booth
 - PI Integrator for Esri ArcGIS booth
- Presentation Day 3
 - OSIsoft Track 1 New User
 - -15:05-15:35
 - With Vadim Fedorov

감사합니다

Danke

Gracias

谢谢

Merci

Thank You

ありがとう

Спасибо

Obrigado



Contact Information

David Jacob

Solution Engineer

Esri

djacob@esri.com



Michelle Kuiee
Product Manager
OSIsoft LLC
michelle@osisoft.com



Questions

Please wait for the microphone before asking your questions

State your name & company

Please remember to...

Complete the Online Survey for this session





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