Professional Services Offerings for Utility Network Implementations

Provides services to help you prepare for and take advantage of the Utility Network

ArcGIS Utility Network (Utility Network) provides a comprehensive framework of functionality for the modeling of utility systems such as electric, gas, water, storm water, wastewater, and telecommunications. It is designed to model all components that make up your system—such as wires, pipes, valves, zones, devices, and circuits—and allows you to build real-world behavior into the features you model. With a Utility Network, you can do the following:

- Create and edit features that model every type of utility equipment
- Discover how features in the network are connected
- Trace how resources, such as gas, water, and electricity, flow through the network
- Provide an operational view of how all the dynamic devices of your utility are currently configured
- Analyze how the network is affected by real-world events such as storms, outages, or equipment failure

Extend your utility enterprise

Industry focused   Integrated network   Future proof your utility   Scalable for your organization   Data quality control

Services Offerings

Esri Professional Services has created four services offerings as described below which are intended to help you prepare for and take advantage of the Utility Network capabilities. The following provides an overview of each services offering:

Implementation Planning Strategy	Data Health Check	Pilot Project/ Proof of Concept	Utility Network Base Implementation

Implementation Planning Strategy

Purpose/Benefit: Defines strategic objectives and sets and enterprise direction for all utility workflows and how GIS will support them.
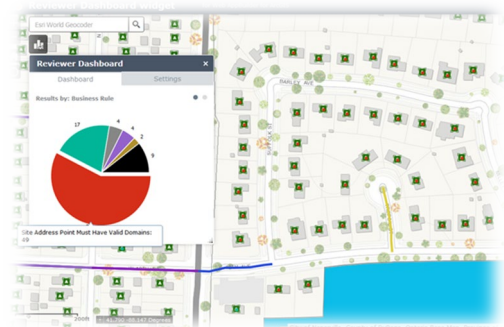
- Starts with a series of discovery workshops to review key business requirements and processes, system integration requirements, geospatial workflows, and data repositories
- Key outcome is a Utility Network Planning Strategy containing recommendations in the follow areas:
    - o Gap analysis between your data model(s) and the utility network asset package
    - o Extending the published electric, gas, water, or telco asset package
    - o Extending utility network rules
    - o System integration
    - o Data preparation considerations for data migration
    - o Data governance
    - o Staff training plan

Data Health Check

Purpose/Benefit: Identify data issues prior to UN migration to mitigate against common data problems that result in migration challenges during implementation.

- Your business systems require clean GIS data to operate effectively
- Starts with data migration readiness health check using the ArcGIS Data Reviewer extension
    - ▪ Review your current data management and data quality control workflows
    - ▪ Validate if your existing data is Utility Network ready before embarking on a full-scale data migration project
- Includes ArcGIS Data Reviewer training and implementation

Pilot Project/Proof of Concept

Purpose/Benefit: Continue to build core team knowledge and understanding about how the software functions and identify deficiencies and/or gaps with the data models, asset package rules and configurations, software functions, etc.
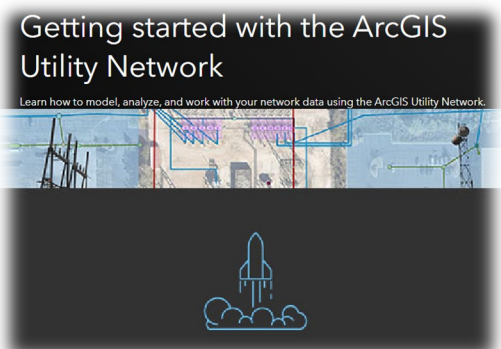
- Covers the implementation of the Utility Network for your gas / water /electric data. Allows you to gain insight on the Utility Network and evaluate it for production usage
- PoC covers:
    - Data model / asset package configuration
    - Data migration (migrating a subset your data—not an Esri sample dataset)
    - ArcGIS Pro project setup and configuration of editing templates
    - Services configuration and publishing
    - Configuration of Branch Versioning and network / subnetworks
    - Knowledge transfer

Utility Network Base Implementation

Purpose/Benefit: Establishes a baseline configuration of the utility network that can be used as a starting point for your utility network project.

- Base implementation consists of installation, and configuration of the Utility Network including a knowledge transfer on how to implement it—no data migration
- Knowledge transfer areas covered:
    - Creating and Configuring Utility Network (using Solution Deployment Tools)
    - Publish and configure the utility network services
    - Utility Network consultation in the areas of data editing, creating UN rules, adding features in a containment
    - Creating and managing subnetworks
    - Network analysis scenarios and capabilities
    - System Diagrams and Custom Diagrams: how system and custom diagrams are set up and updated
    - Branch Versioning
    - Extending the Model: adding fields, manage rules, and Arcade expressions related to attribute rules
    - ArcGIS Pro Project Configuration: use of display filters, creating editing templates

For more information about the Utility Network services offerings described above, please contact consulting@esri.com or your Esri account manager.