

# Conduit Manager

Underground Facility Management Tool



Make the most of your energy<sup>SM</sup>

**Schneider**  
Electric

# Conduit Manager

Utilities must have the ability to effectively manage underground conduit systems. Business functions such as duct leases, duct space joint use, call-before-you-dig, and cable placements are important revenue generating activities that require accurate supporting information.

A large number of utilities are documenting their underground conduit assets with file-based technology. They're using information in several formats — CAD drawings, spreadsheets, Visio diagrams — spread out across their enterprise to inform critical decisions about their network. Or worse, they're relying on human memory, and all that vital information about their network and assets will walk out the door when those valued employees leave. Utilities need an advanced system to document, plan, design, analyze, and maintain their underground conduit systems.

With this in mind, Schneider Electric has developed Conduit Manager as an extension to ArcFM™ to support underground facilities management. Conduit Manager is an integrated set of tools to document, plan, design, analyze and maintain the underground conduit system of a utility network. Conduit Manager provides tools to define an underground conduit system with duct banks, trenches, sub-ducts, cross-sections, underground cables, and underground access structures. Internals of underground structures such as manholes and vaults are also fully supported. Once the underground system is built, users can leverage the tracing queries to determine duct availability based on various criteria.

## Conduit Manager Advantages

Conduit Manager allows you to leverage your existing ArcFM GIS data. You can take any existing data managed by the ArcFM geodatabase and associate it to ducts managed by Conduit Manager.

This includes electric conductors, communications cables, fiber optic cables, etc. Annotation of the map is automatically managed by ArcFM and Conduit Manager business rules and autoupdaters. As an extension of ArcFM, Conduit Manager is built on the same proven enterprise architecture and tools of Schneider Electric's ArcFM Solution. This provides a user-friendly, GIS-based environment to document, plan, design, analyze, and maintain underground conduit systems. This information can be easily accessed across multiple departments within an organization:

- Intuitive GUI
- Easy-to-use
- Simplifies underground facility management and reporting
- Cost-effective

Users can perform the following functions with Conduit Manager:

- Define duct bank configurations including sub-ducts and circular or rectangular ducts
- Create conduit system network connectivity
- Manage duct availability and leasing information
- Associate underground conductors, fiber optic cables, etc. to duct positions
- Add cross-section annotation of the duct bank to the map
- Create internal views of a manholes and vaults — butterfly diagrams
- Navigate between manholes and vaults automatically
- Set duct query criteria and perform duct availability traces
- Query and report Conduit Manager ducts based on criteria such as availability, size, material, occupancy, etc.

## Conduit Manager Benefits

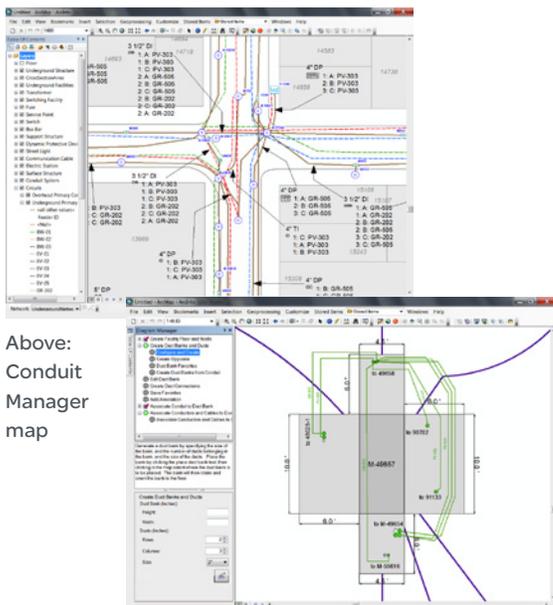
- Integrated system to document, plan, design, analyze and maintain the underground conduit system

- Centralized data storage for easy dissemination to other enterprise users
- Underground conduit system data is accurate and up-to-date
- Annotation and manhole diagrams are automatically updated as data changes
- Create revenue for accurate tracking of leased ducts, use the tracing queries to determine duct availability for new leases
- Leverage your existing ArcFM data – electric conductors, communications cables, fiber optic cables

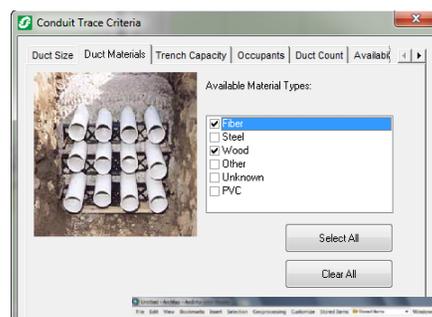
technology. Now with Conduit Manager, utilities have a single integrated advanced system to document, plan, design, analyze, and maintain their underground conduit systems. Your underground conduit network is too important to manage with an outdated, cumbersome file-based system. So why not transition to an advanced solution that seamlessly organizes and analyzes the volume of data produced by your network? That's Conduit Manager from Schneider Electric.

### Built on a sound foundation

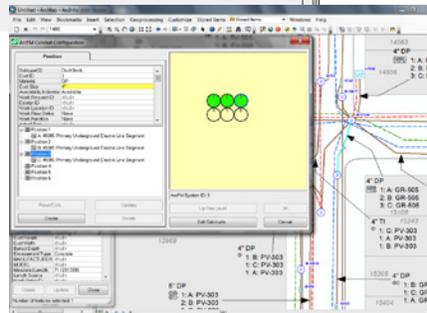
Conduit Manager is an extension of Schneider Electric's ArcFM, which is based on the Esri ArcGIS® platform. ArcFM provides a graphical, data-rich environment that displays the information utilities need for maximum reliability and efficiency. Developed as a complete enterprise solution for an entire organization, ArcFM offers a map-centric, intuitive way to model, design, maintain, and manage facility, and land base information. That's why hundreds of utilities worldwide have adopted ArcFM for their design and asset management



Above: Conduit Manager map



Above: Conduit Manager trace criteria.



Above: Conduit Manager duct configuration.

Above: Butterfly diagram with Diagram Manager creation framework.

**Schneider Electric USA, Inc.**

4701 Royal Vista Circle  
Fort Collins, CO 80528  
Phone: 1-866-537-1091  
Fax: 970-223-5577  
[www.schneider-electric.com/us](http://www.schneider-electric.com/us)