Water Utilities Data Model

Data Model User Group

Join the data model user group if you are an existing ArcGIS customer and want to learn more about design and architecture of personal or enterprise Geodatabase and become a part of Esri's growing data model community.

The ArcGIS Water Utilities Data Model provides the foundation for a complete GIS solution geared to the needs of Water/Sewer Stormwater utility end users. The Water/Sewer Stormwater Data Model is a collection of objects, feature classes and attributes defined for water and wastewater distribution networks. The model can be tailored to meet project requirements for data management and integration with other systems.

For more information contact Lori Armstrong. And for a link to the downloadable ArcScript developer samples click Team Water.

User Forums

Visit the Esri data model discussion forum to share your ideas, thoughts, and questions with other users.

Downloads - Case Studies

These Case Studies are a good starting point to learn about best practices for this discipline. These project examples include sample geodatabases, map documents, and documentation.

- Montgomery AL design poster ArcGIS Water Utility DataModel.pdf - zip format, 6485 kb
- Water Utilities Data Model Webcast wmv file recording of live webcast - wmv format, 51598 kb
- ArcSDE Tuning Presentation given to Water/Wastewater Utilities .ppt - ppt format, 1410 kb

Downloads - Design Templates

The Design Templates are the result of the community-based design process. The general concepts and terms for this discipline are described here. Tools and examples to create a template data model are also included for advanced users.

- Data Model Reference Book - pdf format, 9776 kb
- Tips and Tricks for Data Models - URL format
- Water Utilities Conceptual Design Document Visio doc and gif image - zip format, 680 kb
- Waste Water Design Template vsd, txt, mdb, and gif - zip format, 3714 kb
- Simplified Sewer Database .xml, .vsd, .gdb, .dtd, and .txt - zip format, 1579 kb
- Simplified Water Utilities Database .xml, .vsd, .gdb, .dtd, and .txt - zip format, 1525 kb
- Simplified Stormwater Database .xml, .vsd, .gdb, .pdf, .dtd, and .txt - zip format, 1874 kb
- Sewer Treatment Plant Data Model .gdb, .xml, .pdf, .vsd, and .txt - zip format, 12205 kb
- Water Treatment Plant Conceptual Data Models .pdf, .vsd, and .txt - zip format, 866 kb
- Sanitary Sewer Design Template vsd, XMI, and 9.3.1 file GDB - URL format

- [Water Utility Design Template](#) vsd, XMI, and 9.3.1 file GDB - URL format

Downloads - Tools

These tools have been developed together with the data models to provide new ways to leverage each industry specific model. They are designed to work with the data model templates and case studies, and can be used with the model, or with other data sets. These tools can be found on ArcScripts, and are not supported Esri software.

- [Water Utility Tools](#) Water Utility Tools - URL format

User Community

Please check [Irrigation data model](#) created for Irrigation District user community. Any [feedbacks](#) are appreciated in order to enhance the model.