

CITY OF COLUMBUS

GIS DATA MODEL MIGRATION TO UTILITY NETWORK

Mod 2



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Overview

To address uncertainty with the cutover date of electric GIS to ArcGIS Utility Network, the City of Columbus, Ohio (City) has identified the need to implement an ETL solution. This solution is expected to automate the synchronization of updates from ArcGIS Utility Network database to ArcGIS geometric network data until the current integration between ArcGIS geometric network and ArcFM Responder is transitioned. As a result, the City can cut over to the ArcGIS Utility Network for electric as early as the second quarter of 2026, mitigating the risk of ArcMap retirement.

To achieve this outcome, we propose to configure and implement a Safe Software FME-based ETL solution. The solution is expected to read the changes from the source ArcGIS Utility Network geodatabase and apply them periodically to the target ArcFM geometric network geodatabase. Our subcontractor, Avineon, will lead these tasks.

Task 1: Prototype

During this phase, Avineon and the City will agree upon the configuration requirements. The following table outlines the services expected from Avineon and the activities to be performed by the City during the prototype phase:

Avineon	City of Columbus
<ul style="list-style-type: none"> • Prepare Utility Network to geometric network data mapping • Develop and demonstrate prototype • Deliver solution architecture diagram • Walk through any limitations and constraints 	<ul style="list-style-type: none"> • Process remote access for Avineon staff to City's IT environment • Attend demonstrations and approve the solution architecture diagram along with any limitations and constraints • Provide approval to proceed with the development of the completion solution

Task 2: Build

Avineon will complete the development of the FME-based ETL solution during this phase. The following table outlines the services expected from Avineon and the activities to be performed by the City during the build phase:

Avineon	City of Columbus
<ul style="list-style-type: none"> • Complete development • Perform testing • Demonstrate testing results along with daily ETL logs • Assist with deploying within test environment • Deliver documentation for deploying and monitoring the ETL solution 	<ul style="list-style-type: none"> • Test ArcFM Responder to verify the ETL of changes is acceptable • Provide any feedback essential to finalize the ETL solution

Task 3: Promote/Go Live

Avineon will work with the City to identify the go live window and review the go live checklist and schedule. The following table outlines the services expected from Avineon and the activities to be performed by the City during this phase:

Avineon	City of Columbus
<ul style="list-style-type: none"> Observe test runs for two weeks Assist with promoting the solution to production environment Provide knowledge transfer 	<ul style="list-style-type: none"> Approve promotion of the ETL solution to production environment Promote the solution to production environment Final acceptance of the deliverables and documentation Attend knowledge transfer session

Funding

The following table shows the project tasks, costs, and the outstanding need for funding. We will continue to bill on a monthly percent complete basis.

Task	Activity	Costs	billed so far	remaining to be billed	Amt from Original PO to use on these phases	Mod 2 funds needed
1	Prototype	\$15,000.00	0%	\$15,000.00	\$0.00	\$15,000.00
2	Build	\$25,000.00	0%	\$25,000.00	\$0.00	\$25,000.00
3	Promote	\$10,000.00	0%	\$10,000.00	\$0.00	\$10,000.00
20% Contingency						\$60,000.00

Notes

1. All work can be performed remotely. If travel to City offices is required, travel and other direct costs will be billed at cost plus G&A.
2. The scope does not include any licensing or services for the installation and configuration of ArGIS Utility Network and FME software on the City's servers.
3. Avineon's staff from our U.S. offices will provide all the needed services through remote access to the City's environment.
4. The completion of each phase will require electronic signatures and confirmation from the City to proceed with subsequent phases.
5. No new GIS data will be created or collected as part of this project.
6. Sales tax will be applied to invoices in accordance with applicable state law.
7. This proposal is valid for 60 days.