

SIMILIX CIM ADAPTOR FOR ARCGIS

Your data is an asset

The need for exchanging data increases over time, and you must consolidate your data landscape to meet these future requirements. You need to make your GIS data available for other systems. You need to be able to talk CIM.

The number of CIM based integrations in the electric utility industry is growing fast, making CIM a de-facto standard for new integrations. This growth is driven by a number of factors:

- Relying on standards reduces implementation cost and maintenance cost when making new integrations
- Standard based Integrations support integration of multiple systems using the same technology.
- Major SCADA, EMS, ADMS and OMS vendors are requiring CIM exports from source systems
- Transmission System Operators request CIM-based reporting from Distribution System Operators

The Similix CIM Adaptor supports the life-cycle of construction projects - from design to as-build. This is done by supporting CIM difference files describing the incremental changes with added or removed components, that will be energized in one operation. The tool is thereby providing IT support for planning and executing network re-configurations.

The flexibility of the Similix CIM Adaptor facilitates alignment of data and business processes across business units and systems. Data can be exchanged without changing the underlying data models in the source systems. The service based architecture makes it easy to integrate the Similix CIM Adaptor into any production system.

Being able to easily provide your source data in a CIM format is an enabler for making your data an even more important asset, when it comes to supporting business processes and systems with data describing your electrical model.

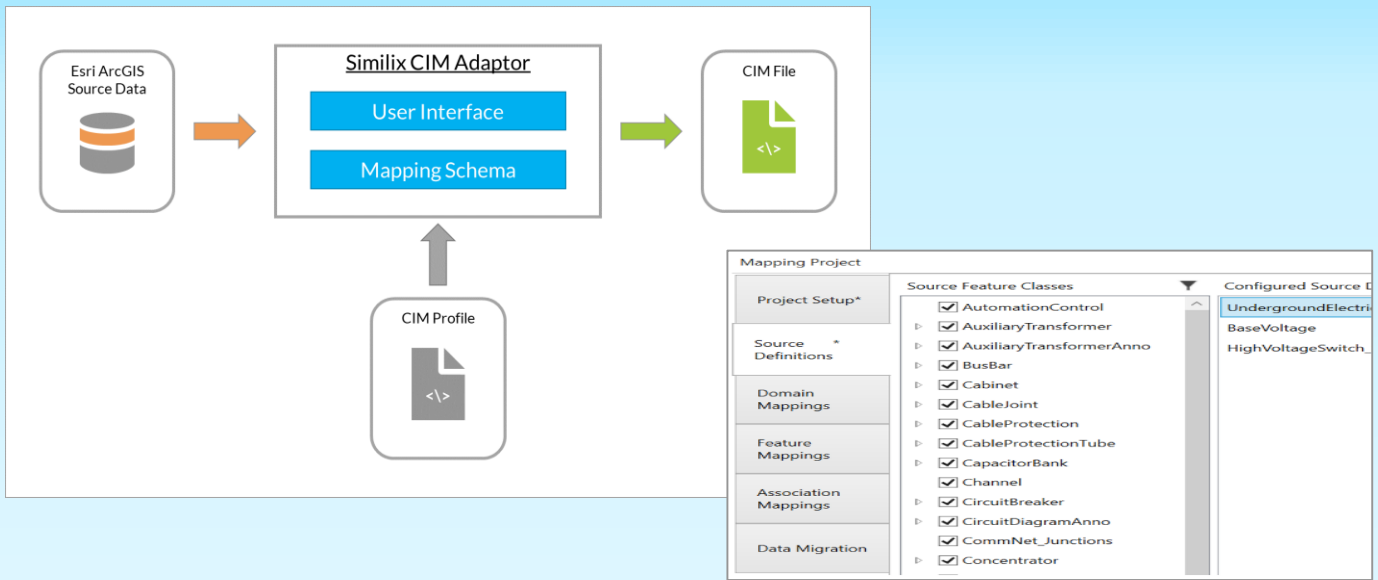
With the Similix CIM Adaptor you are getting a powerful tool that enables you to export your Esri ArcGIS data in CIM format, such that you can make your GIS data available for other systems or operators following well-defined standards.

Facts about CIM

CIM stands for *Common Information Model* and is an international industry standard electrical domain model under the International Electrotechnical Commission (IEC).

CIM is an abstract and neutral model, that can be used as a reference for describing data across systems and data models.

CIM is a rich semantic model, that describes the components and structure of electric power systems, using UML as the specification language. CIM uses XML and RDF (Resource Description Framework) to encapsulate descriptions of electric networks.



Benefits

The Similix CIM Adaptor is an easy and flexible tool for providing GIS source data in a CIM format. Being able to do this, is a general capability that will open up for a wide range of benefits for the electrical utility:

- Transparent master data management strategy, delegating the responsibility of data ownership for each data component.
- Facilitating the orchestration of business processes across multiple systems and business units.
- Integrating your GIS platform with all major operational systems such as SCADA, EMS, ADMS and other third party applications
- Decoupling of systems making the system landscape more flexible, where individual systems may be upgraded or replaced independently
- Benefit from all the knowledge and experience created in the international community



Technology

The Similix CIM Adaptor is a highly configurable engine for mapping and serializing data in the Esri ArcGIS to CIM XML. The user interface provides an intuitive environment for mapping the GIS model to the CIM model based on a given CIM profile schema, which includes feature mapping, attribute mapping and association mapping.

The Similix CIM Adaptor can be custom configured to merge data from other systems like ERP into the CIM file.

Deployment

Installing and setting up the Similix CIM Adaptor for mapping and initial profile adjustments is straight forward.

The CIM mapping user interface and the mapping engine can even be installed on a laptop computer and connected to the enterprise GIS database. For deployment in a production environment the Similix CIM Adaptor is integrated into the existing system platform.

Versions

The Similix CIM Adaptor for ArcGIS supports the Geometric Network on 10.2.1 or later, and will support the new Utility Network from 10.7.

The Similix CIM Adaptor supports the CIM standards IEC 61970 for Transmission and IEC 61968 for Distribution including extensions of these.

For further information

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