

# *E&O System*

Each electric utility has a mission: to provide its customers with economical and reliable electric energy service. To help fulfill this mission, utility employees use a variety of software applications. However, the use of a variety of applications creates unique challenges since not all software applications are integrated or even interoperable. As a result, additional effort and time are required to communicate data between the separate applications.

Milsoft's purpose has always been to provide you with the very best software and support to help you accomplish your mission. We know that you want to use reliable software that performs efficiently to help you get your work done. We also know that you don't want to struggle with interoperability and data management. That brings us to Milsoft's vision – Core E&O. Milsoft has specifically, deliberately and carefully developed our Core E&O software to allow your team to focus on its real work, providing customers with economical and reliable electric energy service, and not on getting your software and data to work together.



# How Does Core E&O Work?

Milsoft's E&O system is an information driven system that incorporates the utility's actual electric distribution network through a circuit model server. The system includes project management tools for convenient data management. Third party applications data is made available to all applications and to your entire team via an integration server.

## Circuit Model Server

With Milsoft's E&O system, all of Milsoft's software applications share the detailed, as-built, as-energized electric utility distribution system network model and data through a circuit model server:

- Geographic Information System (GIS),
- Engineering Analysis (EA),
- Outage Management System (OMS),
- Field Engineering (FE), and
- Communications (IVR)

## Communications (IVR) Server

Milsoft Communications (formerly known as Milsoft IVR) operates on a separate server which is integrated into the E&O system.

## Data Bus

All of the data from Milsoft's internal applications and from external third party applications is available to all users and applications based on user and application credentials. This is represented for convenience in the diagram as a single data bus. Milsoft's E&O system will continue to add functionality to the data bus.

## Integration Server

Data from third party applications (e.g., CIS, AMR, SCADA, AVL) is integrated and made available through an integration server which includes the capability for industry standard data exchange formats like MultiSpeak®.

## Open Platform API

An applications programming interface enables third party applications to integrate directly into the Core E&O system.

## Project Management

Project Management (PM) tools enable all team members throughout your utility to create and use their own versions of the network and associated data as they need them to perform their specific jobs. For example:

### Engineering

- additions / modifications for system planning
- additions / modifications for design and construction of new facilities

### Operations

- configuration changes for potential or actual sectionalizing
- configuration changes to for post storm / disaster circumstances

### Mapping

- as planned
- as constructed
- as energized
- historical configurations archive

The master electric distribution system network model can be conveniently updated, dependent upon your utility's business rules and processes, for review and approval. Updates are then automatically incorporated in every application and database through Core E&O's Circuit Model Server.

# Benefits of Milsoft E&O

Milsoft's E&O system makes it possible for your teams to share information among third party and other Milsoft applications, to assist your engineering and operations teams in providing the best possible service to your customers.

Milsoft's E&O system's Circuit Model Server allows you to share your electric power grid model with GIS, OMS, and our mobile applications seamlessly. OMS, for example, receives updates from Circuit Model Server which allows the Circuit Model to be used by OMS without having to go through any data translation or editing. Circuit Model Server also allows OMS to use the model as required without having temporary operations affect the core circuit model.

A key component of Milsoft's E&O system is our Integration Server which allows Milsoft to provide data interfaces to third party as well as other Milsoft applications. Milsoft has led the way with our support of MultiSpeak and our approach to no-holds-barred integration.

Project Management is a key component of Milsoft's E&O system. There are several operational teams inside your utility that need to work on projects concurrently. From Field Engineering to Outage Management, simultaneous access to data is mission critical. Keeping track of who is working on what in the system is vital to all operational teams. The E&O project management capability ties together key operational functions within your utility.

The Milsoft E&O system ensures that the performance of the applications and data management is limited only by the capacity of the server and network infrastructure installed to support the E&O system.

Your team, from one end of your operation to the other, can use the same software system, the same network model and the same data at the same time. Cross team collaboration is the goal.

## *A Foundation for the Future*

Milsoft's E&O system is just the beginning! Milsoft has created a foundation for continuous improvement in the E&O system through regular releases that will enable your utility to meet the needs of your customers now and for years to come.

## *A History of the Best in Software and Support*

Since Wayne Carr first began using computers for electric utility planning and analysis some 35 years ago, he has maintained a passionate vision of software enabling utilities to best serve their customers with economy and reliability. So, from its very beginning Milsoft has been driven to provide the very best in engineering and operations software and support to electric utilities. And the company will always aggressively leverage the best information technologies to do this.

