Designing and maintaining effective real-time operational displays for critical Transmission, Distribution and Supply utility operations has been a major challenge in the industry. General CAD software used by many suppliers is often too complex and unintuitive for developing Operational displays, while custom graphical editors tend to have a very limited set of features and functionality.

**OSI Design Studio™** is OSI’s flagship Graphical Design and Development environment, including many of the necessary features of a generic CAD program, without the complexity. **Design Studio** is streamlined for use in real-time environments with dynamic display support. **Design Studio** is used to plan, design, develop and maintain all graphical, tabular and iconic displays for the **OpenView™** Graphical User Interface. **Design Studio** is a straight-forward, intuitive, feature rich and user-friendly display editor that employs a wide array of tool sets including multiple floating and dockable toolboxes, designed to facilitate easy and efficient display creation and maintenance.

Salient **Design Studio** features include:

- A “what you see is what you get” editing environment (no intermediate steps are required to see your immediate changes in the resulting display)
- Full Graphic World Coordinate based one-line diagram schematics
- Support for an unlimited number of high-resolution World Coordinate System maps
- Geographically oriented operational maps
- Powerful tabular, list based displays that are automatically populated by database definitions
- Full directional zooming and panning
- Transparent, semi-transparent and gradient shaded graphical objects
- Integrated user-permission based security
- Image importing from external map servers (such as Google™ Maps), including full zoom and pan support
- Simple data browsing tools that can link objects to dynamic data via drag-and-drop
- On-demand reports showing detailed data link and property information about graphical objects
- Full configuration options for the automatic organization of world maps
- Overlay support for the grouping of similar objects on world maps

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• Support for process execution (local or server) with user-permission based security, allowing for the seamless integration of third party applications such as Microsoft tools, video streaming and more

• Graphical presentations of dynamic data elements, including directional arrows, color coding, etc.

• Support for unlimited TrueType fonts and font styles

• Simple to use tools to snap and align graphical objects to a grid template

• The ability to display, review, commit changes and automatically propagate changes to the displays of targeted users

• Flexible point tag representation and placement

• Support for unlimited symbol libraries including multi-state symbols for dynamic data visualization

• Support for Dashboard “widgets” embedded directly into one-line maps and diagrams

• A context sensitive properties editor for the quick manipulation of graphical properties

• Widget support for meters, charts, dials and other types of data representative objects

• Support for CAD importing and exporting formats (DXF, etc.)

The tools available in Design Studio make features in OpenView—such as 3D mode and advanced visualizations—easier to implement. Any 2D one-line diagram can be automatically transformed into a 3D map or an attention grabbing contour plot; without the complex tools typically required in other graphical editors. These powerful visualization features greatly enhance the Operator’s situational awareness and are easily maintained in the Design Studio environment.

Graphical “widgets” can be integrated into any display constructed in Design Studio. These widgets can be a simple gauge representing a single piece of data or a complex series of graphical representations of various sets of data such as charts, trends, plots, etc. The customized layouts and user control of information presentation result in a truly user-friendly experience.

Design Studio allows OSI systems to remain highly flexible for utilities as their operational needs evolve. Regardless of what the future holds, Design Studio ensures that the users of monarch™ technology are well equipped and ready to adapt with a fully functional and ultra-powerful graphical development environment.