Advanced Distribution Management System: Field Client
Schneider Electric Smart Grid Solutions Suite
Managing the Distribution Network of the Smart Grid Era

Make the most of your energy℠
Advanced Distribution Management System: Field Client

The Schneider Electric™ Field Client is a web-based thin client providing utility field crews with access to work requests, switching plans, incidents and safety documents. Field Client allows users to view, search and navigate the network in both geographic and schematic views, as well as perform operations like planned switching and incident response. Field Client is designed to function in online and offline modes, to support touch-based devices and a variety of web browsers.

It provides the full benefits of a web application – centralized deployment and management, load balancing, a rich user interface, and mobile device support. Additionally, it recognizes and respects each crew’s working environment by optimizing the user interface for touch screens and offering broad offline capabilities. Field Client provides real-time information from the Schneider Electric Advanced Distribution Management System (ADMS) and replaces paper maps, empowers field crews, and makes communication between crews and the control room more structured and reliable.

General Application Features

Field Client supports Microsoft®, Android™, and iOS®* devices and offers many features typical of web-based, tablet-based applications. The user interface is optimized for touch devices and the application automatically scales to screen size. The main toolbar provides easy navigation through application screens, and toolbars automatically adjust to show available functions. A status bar provides both connection status and last synchronization time and status. Notifications are managed via a notification center that provides visual and audible alerts and information on data updates and events. Context-sensitive help provides easy and rapid user guidance. Field Client also offers a night theme for easier nighttime operations.

Application security is paramount, and the Schneider Electric Field Client uses industry-standard security mechanisms including Windows® based authentication and SSL to ensure secure connectivity.

Field Client Dashboard

Field Client includes a dashboard that provides essential information to the crew in a clear and organized manner. It shows a prioritized list of assignments that allows crews to quickly and easily view assignment details. Crew activities can be efficiently tracked through individual assignment status updates, and crews can publish availability and enter status comments. Dashboard information and operations are fully available offline, when a network connection is unavailable.

* iOS does not currently support offline mode

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Field Client provides crews with a rich network view to support crew activities and navigational capability. Views can be fully navigated using dedicated controls and mouse and touch gestures including pan, zoom, and zoom to fit. Views display the current realtime state of the network in online mode with support for coloring mode selection, visibility profiles and feeder focus. Field Client also offers a configurable display as well as management of landbase layers. In addition, Field Client allows easy access to details and internals of devices shown as well as the ability to run tracing upstream from the selected device to the source, reclosing device, or open points and downstream from the selected device to all supplied devices.

### Element and Landbase Search

Advanced search functions allow crews to quickly find any network element (device, conductor, etc.) of interest and access element properties. Crews can also search landbase information and navigate to landbase records in the geographic network view. Searching is available in offline mode for areas downloaded before entering offline mode.

### Network Views in Offline Mode

Field Client enables crews to navigate the network and access relevant information including device details while in both connected and disconnected modes. Users can download multiple network views and their relevant information for use while offline. Management of downloaded offline views is accomplished through an easy to use dedicated screen.
Switching Management Workflows

Field Client supports complete switching plan and safety document workflows, in both online and offline mode. Assigned switching plans and safety documents are readily located within the assignments list in the Field Client dashboard. Switching and safety document management and workflows can be configured system wide, ensuring alignment with utility business processes and operating procedures. Switching and safety document changes are synchronized with the server regularly, ensuring the most relevant and useful updates are made available to the crew and control room staff promptly.

Switching Management: Switching Plans

Using Field Client, crews have access to all relevant switching plan details. The application provides a list of switching instructions assigned to all involved crews, and switching instructions assigned to the specific crew are distinctly marked. Execution steps for each switching instruction are shown clearly, and crews have the ability to open device properties, locate devices in the map view, and set the execution time prior to marking the instruction as executed. In addition, crews can autonomously create, update, and execute switching plans for sections of the network and manipulate the status of manual points for appropriate devices as configured by an administrator.
Switching Management: Safety Documents

In addition to switching plans, crews have access to safety documents. A list of requested equipment and isolation points is shown to the user, with access to properties of each device and ability to locate each device in the map view.

Safety documents are presented to the user via a configurable form that contains fields that crews must complete prior to returning the safety document. Crews are provided with a clear indication of pending changes and synchronization status.

Outage Management Workflows

Field Client also supports full outage management and incident workflows. Incidents assigned for investigation are included in the assignments list in the dashboard. The incident details available and workflow are configurable in alignment with your utility’s business processes and operating procedures.

Incident information is synchronized with the server regularly, ensuring the most relevant and useful updates are made available to the crews promptly. The Field Client application provides extended editing capability to allow for efficient and structured input from the field crews. Through the Field Client, users have access to general information, outage device information, location and properties, switching instructions, related customers and calls, schedule, problems, resolution, and involved crews.

When managing incidents, crews can set or override an Estimated Time to Restore value. In addition, crews can override the predicted device, confirm open circuits, and roll up and roll down commands. Crews can record new and edit existing problem information, including the selection of outage devices. All operations are supported equally in online and offline mode.
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The Schneider Electric ADMS and integrated Field Client application represents the evolution of control room technology by merging DMS, OMS, and SCADA technologies into one comprehensive network management solution. As part of the Schneider Electric Smart Grid solutions suite, it can help your utility transition into a next-generation energy provider by enabling safer, more reliable, and more efficient power distribution.

For More Information ...
Scan the QR code to email one of our subject matter experts about how this unified solution can help you meet your utility’s Smart Grid goals.