

# Pragma<sup>®</sup> SWITCH

## Switching and Workflow Consolidation



Experience the commitment<sup>®</sup>

**T**he need to operate your network reliably, securely, and safely can help reduce the number of sustained outages and ultimately improve the restoration process. CGI's PragmaSWITCH application offers flexible and robust switching and workflow consolidation to analyze and manage utility connectivity networks at all levels, resulting in reduced restoration times and increased safety of field personnel.

PragmaSWITCH is a key component of CGI's Outage and Network Management solution suite and has both the extensibility and flexibility to adapt to any network-centric service provider.

### **DYNAMIC OPERATIONS MANAGEMENT FOR DISTRIBUTION NETWORKS**

PragmaSWITCH automates the management, preparation, simulation and validation of complex switching plans and supporting objects, such as tags, permits, safety documents and planned interruption notifications. Switching operations are performed on a given as-built network model imported from a service provider's GIS import facility, or the actual real-time network configuration.

### **NETWORK MANAGEMENT**

PragmaSWITCH ensures that switch plans are consistent and valid using complex algorithm that account for different capacity service classes, conductor types, feeder tie points, restrictions and voltages. Network management operations may be recorded against as-built or as-is versions of the electric network, based on topology imported from a GIS and supplemented by real-time sources such as SCADA/EMS or AMI.

### **AUTOMATED AND MANUAL GENERATION OF SWITCH PLANS**

PragmaSWITCH provides a wide variety of switch plan templates for construction, contingency, emergency, and maintenance. Providing detailed search functions for easy information retrieval, PragmaSWITCH creates diagnostic and predictive switch plans for event replay and post-event analysis without compromising as -built statuses and existing network statuses.



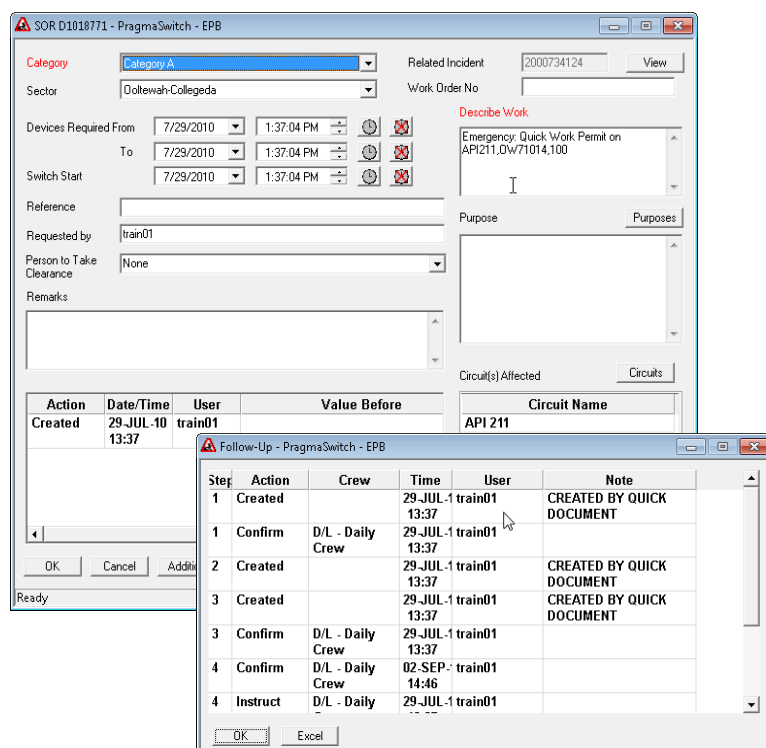
### **KEY FEATURES**

- Switch order request creation
- Interactive switching step editing
- Device-to-switching step association
- Create, edit, and manage the approvals workflow
- Automatic generation of planned outage records that become active as switching is executed

PragmaSWITCH delivers a creative and dynamic switch-management tool that reduces operational overheads by efficiently managing all aspects of the distribution network.

## COMPREHENSIVE STEP-EDITING

PragmaSWITCH facilitates the step-editing process with user-friendly functions including approval, customer notification, and safety documentation integrated with permits and tags for every step of the switch plan cycle. PragmaSWITCH also provides integration of steps from existing switch plans and the analysis of the number of customers affected by the interruption of service provision.



The screenshot displays two overlapping windows from the PragmaSWITCH software. The top window, titled 'SOR D1018771 - PragmaSwitch - EPB', contains various input fields for creating a switch plan, including 'Category' (set to 'Category A'), 'Sector' (set to 'Doltewah-Collegeda'), 'Related Incident' (set to '2000734124'), and 'Work Order No'. It also features a 'Describe Work' section with a text area containing 'Emergency Quick Work Permit on API211.DW71014.100'. Below this is a 'Circuit(s) Affected' section with a table showing 'API 211'. The bottom window, titled 'Follow-Up - PragmaSwitch - EPB', is a table with columns for 'Step', 'Action', 'Crew', 'Time', 'User', and 'Note'. It lists several steps, including 'Created', 'Confirm', and 'Instruct', with associated crew members like 'D/L - Daily Crew' and users like 'train01'.

Step	Action	Crew	Time	User	Note
1	Created		29-JUL-1 13:37	train01	CREATED BY QUICK DOCUMENT
1	Confirm	D/L - Daily Crew	29-JUL-1 13:37	train01	
2	Created		29-JUL-1 13:37	train01	CREATED BY QUICK DOCUMENT
3	Created		29-JUL-1 13:37	train01	CREATED BY QUICK DOCUMENT
3	Confirm	D/L - Daily Crew	29-JUL-1 13:37	train01	
4	Confirm	D/L - Daily Crew	02-SEP-1 14:46	train01	
4	Instruct	D/L - Daily	29-JUL-1	train01	

## AUTOMATED GENERATION OF RESTORATION STEPS

PragmaSWITCH automates the generation of restoration steps based on the initial analysis of switching operations. Processing of additional dynamic information related to network restrictions (such as outages and tags) allow for greater accuracy in power restoration strategies.

## SCHEDULED INTERRUPTION CUSTOMER NOTIFICATION

PragmaSWITCH delivers proactive interruption carding and affected customer notification, including user-friendly interfaces for mail system and generation of automated customer notification lists.

## KEY BENEFITS

- Reduces operational overheads
- Prioritizes high performance and safety levels
- Generates consistent switch plans and validation
- Analyzes and manages connectivity networks at all levels

## ABOUT CGI

Founded in 1976, CGI is a global IT and business process services provider delivering a portfolio of industry-centric software solutions coupled with high-quality business consulting, systems integration and outsourcing services. With 68,000 professionals in 40 countries, CGI has an industry-leading track record of on-time, on-budget projects.

We partner with utilities across the globe to provide the knowledge and expertise to enable automation of the industry's best practices for enterprise asset and resource optimization.

For more information about CGI, visit [www.cgi.com/utilities](http://www.cgi.com/utilities) or email us at [info.util-sol@cgi.com](mailto:info.util-sol@cgi.com)