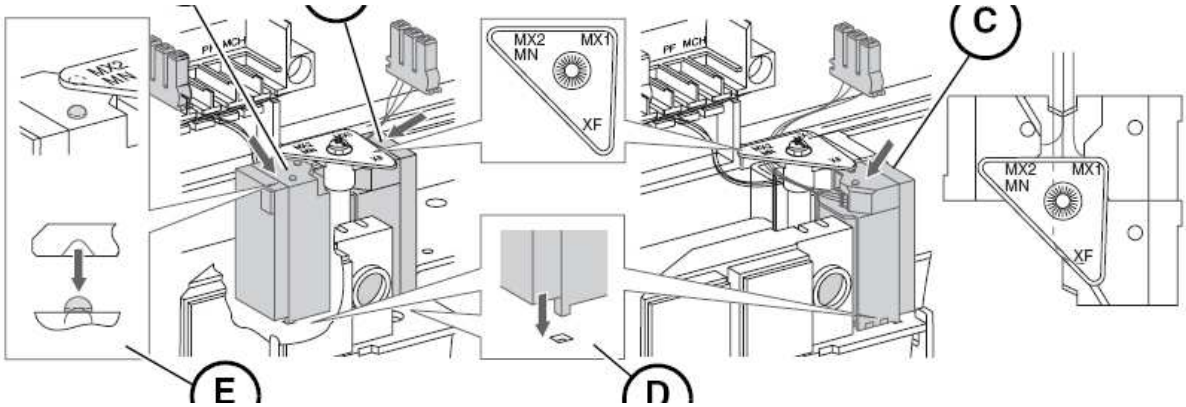
Browser Communication System for Controlling Breakers with IFE Switchboard Server

Summary of Activity:

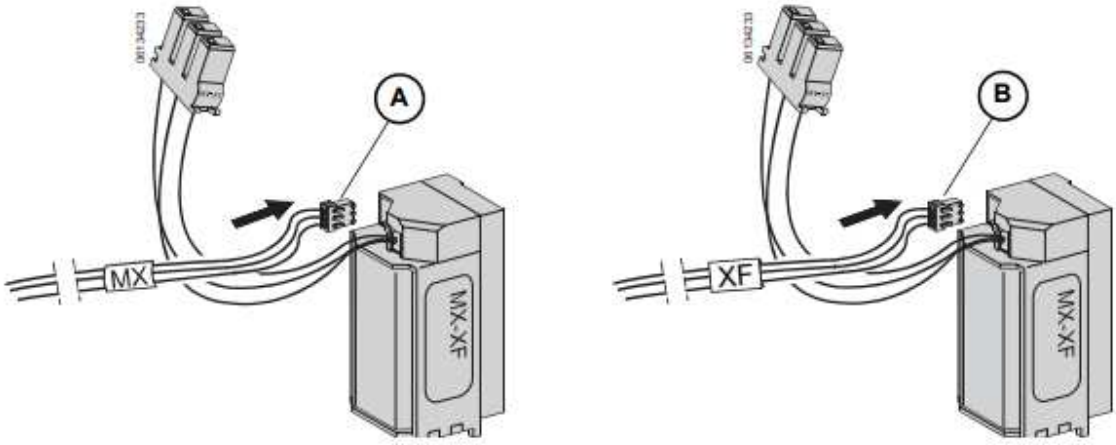
- Install MX-COM and XF-COM coils
- Install communications wire harness between coils and BCM
- Modify MX-COM and XF-COM input power wiring
- Install one IFE switchboard Server in place of one existing standard IFE
- Configure IFE switchboard server

Instructions compiled by Marshall Barker - January 10, 2019

Swap out standard MX and XF coil with MX-COM and XF-COM coils, instructions 48049-146-01 included with new coils.

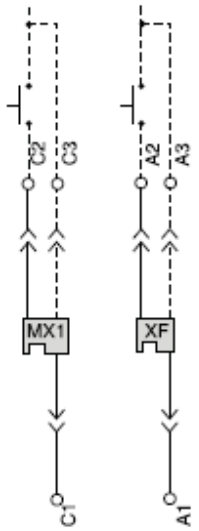


Connect communications harness (bubble A and B) from BCM to the com coils.



Modify Com coil input power wiring

- Continuously power C3 and A3 so the coils can be operated through communications. Intermittent operation of C2 and A2 are not needed anymore unless they still want to operate the breaker electrically.



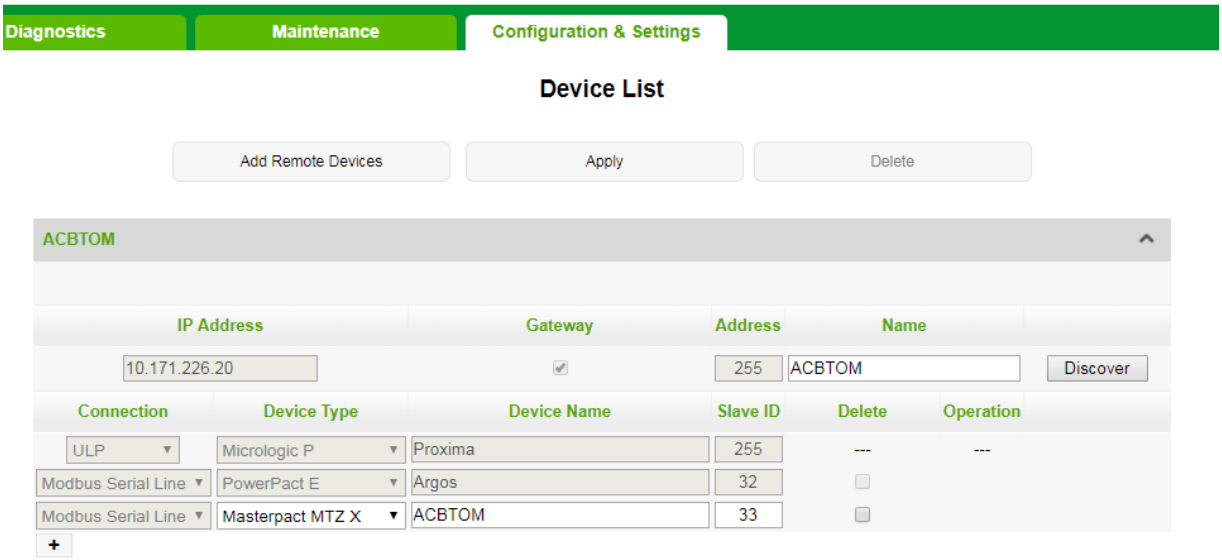
Remote Operation				
MN/MX2	MX1	XF	PF	MCH
D2/C12	C2	A2	254	B2
C13	C3	A3	252	B3
D1/C11	C1	A1	251	B1

Install one IFE switchboard Server in place of one existing standard IFE

- LV434002 - IFE Ethernet switchboard server
- Old commercial reference isLV434011
- Refer to IFE user guide as necessary: 1040IB1401-05

Configure IFE switchboard server, add devices to the device list, and Enable Application Control in IFE Interface for open/close buttons.

- Refer to IFE user guide as necessary: 1040IB1401-05
- Add IFE devices to the switchboard server Powerview webpage. Use the configuration & settings tab and then click on Device List on the left-hand side the page, add devices by IP address and slave ID 255. Please ignore the modbus devices shown below.



- Enable Application Control in IFE Interface, steps 1 through 6.

Enable Application Control in IFE Interface

Follow the below procedure to enable the **Application Control** feature in IFE interface.

NOTE: The application control feature is enabled only when the user is logged in as an administrator.

Step	Action	Result
1	Press the test button on the front face of the IFE interface for 10–15 s. NOTE: Do not press the test button less than 10 s or more than 15 s.	Initiates the application control feature.
2	After 15 s, IFE interface initiates the application control feature.	The feature disclaimer window is available continuously for 5 min. The module status LED starts blinking continuously for 5 min (1 s ON, 1 s OFF) once the test button is released.
3	Access the IFE webpage and login as an administrator.	The administrator login to the IFE webpage.
4	From the **Configuration & Settings** menu, click **Webpage Access**.	The **Administrator** reads the disclaimer and chooses either the option **I Understand the risks/Apply** or **Continue to disable**. The application control feature disclaimer is: *By accepting this disclaimer, you are directed to webpage access which enables you to control several applications remotely. It is highly recommended that the administrator modify the default administrator password. By using, you are agreeing to indemnify and hold harmless Schneider Electric for and from any claims, losses, demands, lawsuits, and damages that are a result of direct or indirect use of this application control feature by reason of any act or emission which the user commits.* The disclaimer page is available in the language selected by the administrator.
5	Select **I Understand the risks/Apply**.	The application control feature is now enabled for the administrator. The breaker application and IO application are enabled in the webpage access for providing access to the other user groups.
6	Select **Continue to disable**.	The application control feature is disabled. The breaker application and IO application are disabled in the webpage access.

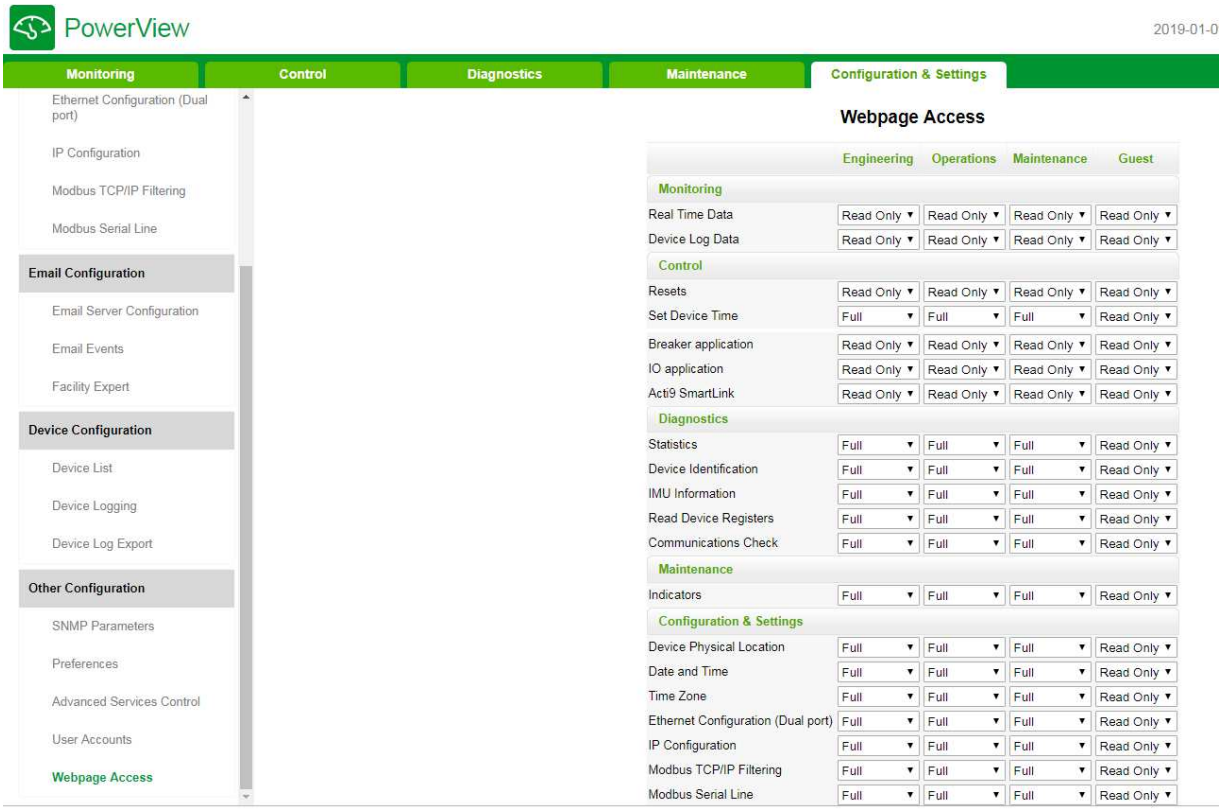
Breaker Application

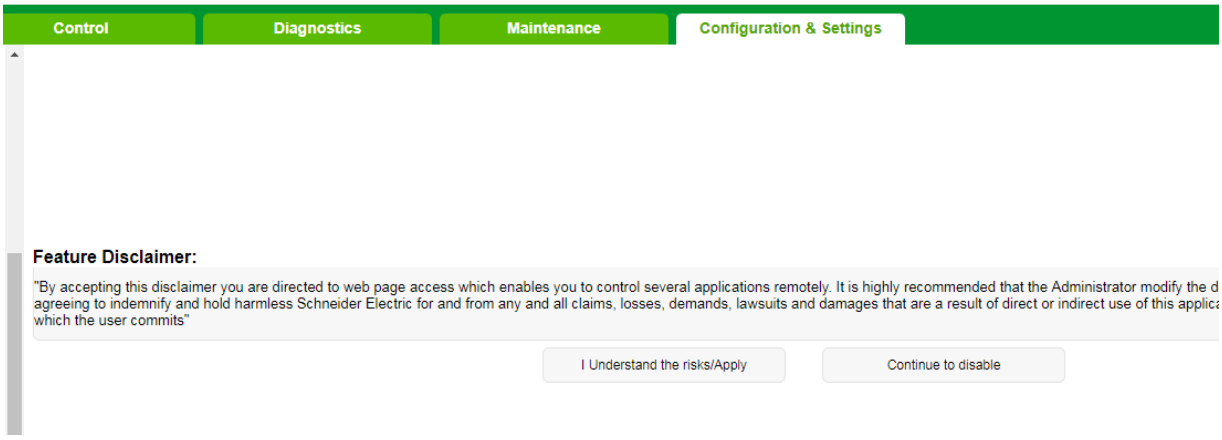
From the **Device Control** page, in the **Breaker Application**, the authorized group can perform the following operations:

Control	Status	Operation	Availability
Breaker	Open/Close/Tripped/NA	Open/Close/Reset	PowerPact H-, J-, and L-frame circuit breaker with BSCM
		Open/Close	Masterpact NT/NW or PowerPact P- and R-frame circuit breaker or switch disconnector with BCM ULP

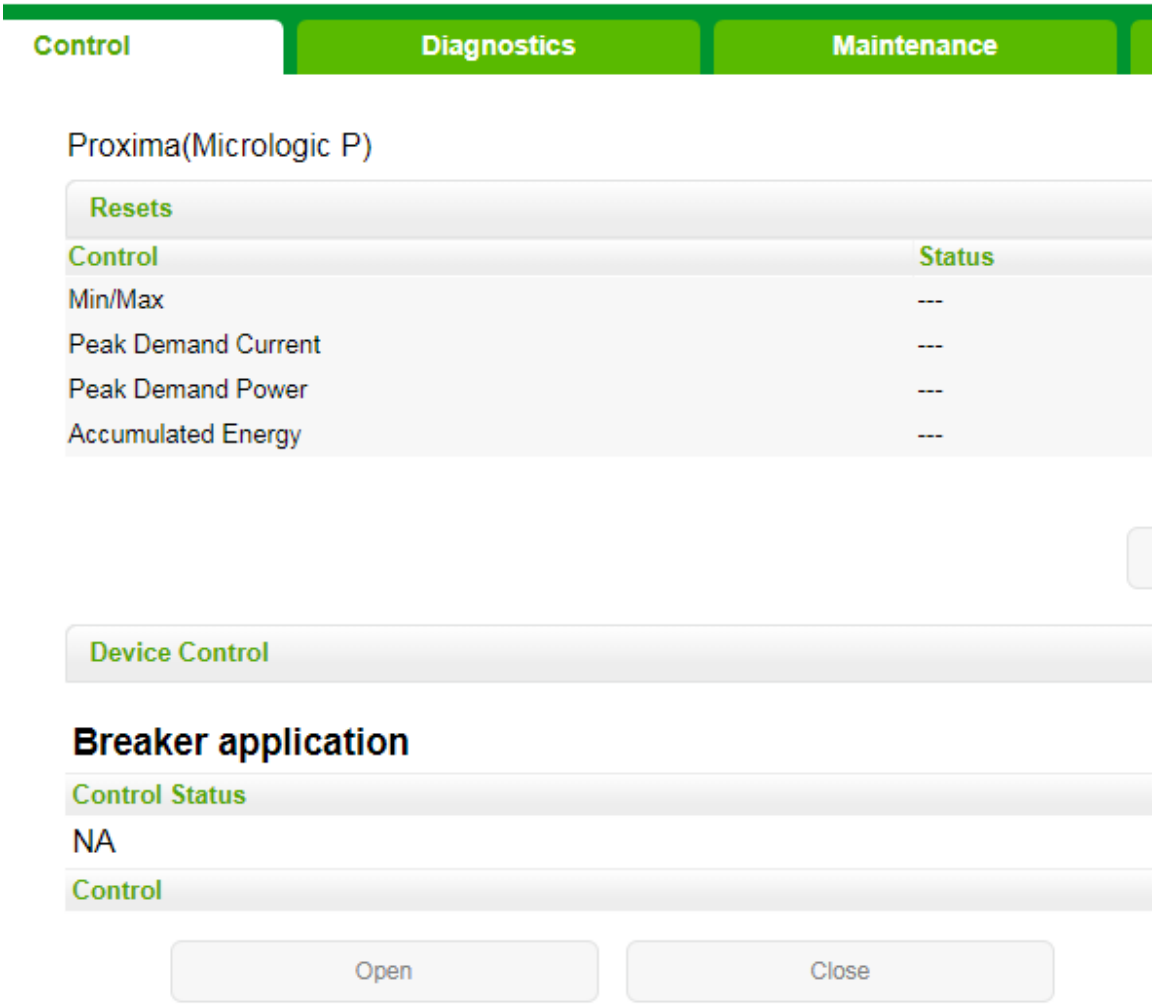
NOTE: Pop-up message confirms that the command is successfully sent. It does not confirm whether the complete operation is successful.

Below are some examples of what your PowerView pages will look like while enabling Application control.





Lastly, you should see the OPEN/CLOSE control buttons on the page.



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