IntelliRupter® PulseCloser® Fault Interrupter Control Module and Communication Module Swapping Cases
Control Ethernet connected to the wide area network device—standard or legacy connection

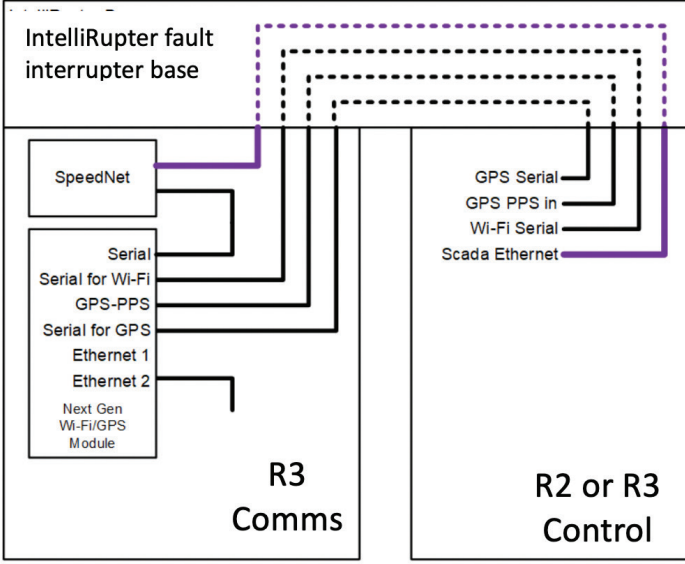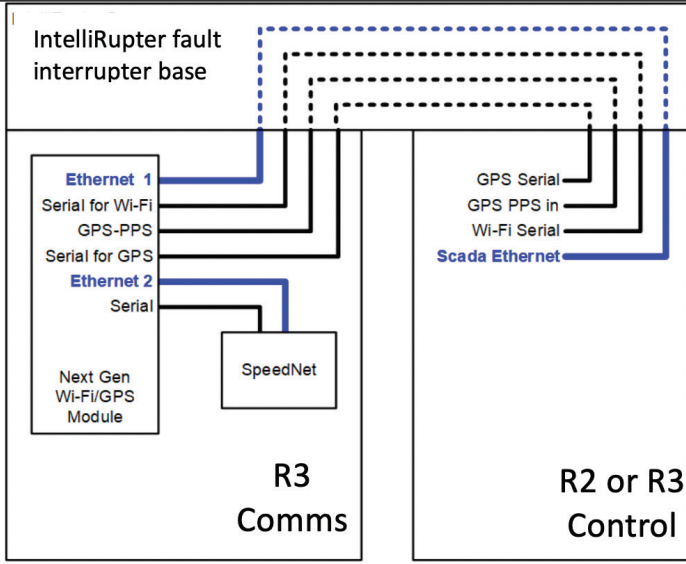| Starting Communication Module Type	Starting Control Module Type	Ending Communication Module Type	Ending Control Module Type	Results
SDA-4554-XXX●	SDA-4540R2	SDA-4554R3-XXX●	SDA-4540R2	No functional change. Will need LinkStart 4 software to connect the R3 communication module, but there will be no change to the connection workflow. There are no concerns or considerations with regard to the firmware in the control.
SDA-4554-XXX	SDA-4540R2●	SDA-4554-XXX	SDA-4540R3●	R2 control module settings will transfer from the base memory module (BMM) to the R3 control module, and the control will be configured and ready to go with no functional change to the control change workflow. **Note:** This is applicable only if the control modules are programmed with firmware version 7.3.x or a later version.
SDA-4554R3-XXX●	SDA-4540R3	SDA-4554-XXX●	SDA-4540R3	No functional change to the connection workflow.
SDA-4554R3-XXX	SDA-4540R3●	SDA-4554R3-XXX	SDA-4540R2●	R3 control module settings will transfer from the BMM to the R2 control module and the control will be configured and ready to go with no functional change to the workflow. **Note:** This is applicable only if the control modules are programmed with firmware version 7.3.x or a later version.
SDA-4554-XXX●	SDA-4540R3	SDA-4554R3-XXX●	SDA-4540R3	There will be no functional change to the workflow when the communication module is swapped. Will need LinkStart 4 software to connect the R3 communication module, but there will be no change to the connection workflow.

● Indicates the module type being changed.

Starting Communication Module Type	Starting Control Module Type	Ending Communication Module Type	Ending Control Module Type	Results
SDA-4554R3-XXX●	SDA-4540R3	SDA-4554-XXX●	SDA-4540R3	If the R3 communication module is replaced with an R0 communication module, the R3 control module will automatically use the serial connection when the control doesn't detect the Ethernet connection. This means the control IP must be changed to bring the wide area network IP address back from the Wi-Fi/GPS to the control. To help avoid this, retrofit kits will be made available that will allow an upgrade of the R0 communication modules to the new Wi-Fi/GPS module.
SDA-4554R3-XXX	SDA-4540R3●	SDA-4554R3-XXX	SDA-4540R2●	When an R2 control module is inserted and the Wi-Fi/GPS module does not detect the R3 control module, the Wi-Fi/GPS module will automatically route the Wi-Fi connection through the serial connection. **Note:** This is applicable only if the control modules are programmed with firmware version 7.3.x or a later version.
Standard Ethernet Connection		**Alternate Ethernet Connection**		The alternate connection will enable remote access to the Wi-Fi user interface with either the R2 or R3 control modules installed in the IntelliRupter® fault interrupter. The alternate connection will enable the faster data-transfer speeds with the R3 control module. The R3 control module will auto-detect when the Wi-Fi Ethernet is connected to the control and, if enabled, will allow the Wi-Fi local user interface to be routed through the Ethernet port.

To use the alternate wiring, the wide area network (WAN) IP address used must move from the control to the Ethernet 2 port in the Wi-Fi/GPS module. Then, a specific local area network must be established between the control and the Wi-Fi/GPS module. The IP address information is located in the Configuration section of S&C Instruction Sheet 766-524. When that is done, a network-address translation is performed in the Wi-Fi/GPS module to properly route the messages from the WAN to the control. The IP addressing for the master stations inside the control will remain the same. Only the control IP address changes. To address security concerns, firewall rules embedded in the Wi-Fi/GPS module will prevent the Wi-Fi from routing data through the Ethernet port connected to the WAN. |

● Indicates the module type being changed.