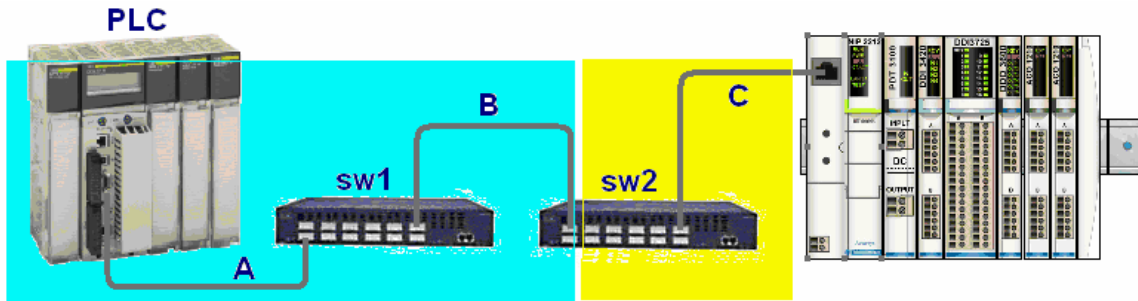


Island Output Behavior if a Link Failure Occurs

A Link failure occurs when there is a disruption in communications between the Advantys Ethernet NIM and the device (ex: PLC) communicating to it. However, the outputs of an island can behave differently depending on where a link failure occurs within a network. Therefore, to allow the outputs to behave the same regardless of where the link failure occurs, an option called 'Link Failure Mode' was added to the web pages for Exec. v2.30 in the Ethernet NIM.



With Ethernet NIM Exec versions of 2.14 or less:

- Condition 1 A disruption in the link at cable **C** or **sw2** (switch 2) would cause the outputs on the Island to go immediately to fallback mode.
- Condition 2 A disruption in the link anywhere from cable **B** to the **PLC** (cable B, sw1, cable A, or PLC) causes the outputs of the Island go to holdup first and after the holdup time has expired, the outputs will resort to fallback mode. (Default Holdup time = 1 second).

With Ethernet NIM Exec versions of 2.30 or higher:

- Condition 1 is now configurable through the Ethernet NIM '**Master Controller**' web page that allows the user to configure a 'Link Failure Mode' setting of *Holdup* or *Fallback*. These selections are explained on the next page.
- The action of the Island for Condition 2 does not change.

Master Controller

Master 1 IP Address:	<input type="text"/>
Master 2 IP Address:	<input type="text"/>
Master 3 IP Address:	<input type="text"/>
Reservation Time:	<input type="text" value="60000"/> ms (Valid range is 0-120000)
Holdup Time:	<input type="text" value="1000"/> ms (Valid range is 0=indefinite, 300-120000)
Link Failure Mode:	<div> <input type="button" value="Fallback"/> <input type="button" value="Holdup"/> <input type="button" value="Fallback"/> </div>
	<input type="button" value="Save"/> <input type="button" value="Reset"/>

‘Link Failure Mode’ Configurations

- The default for ‘Link Failure Mode’ is *Fallback*. In Fallback mode, a disruption in the link at cable **C** or **sw2** (switch 2) would cause the outputs on the Island to go immediately to fallback.
- The second selection called *Holdup* mode, works as follows:
A disruption in the link at cable **C** or **sw2** (switch 2) forces the outputs on the Island go to holdup first and after the holdup time has expired, the outputs will resort to fallback. A disruption in the link at cable C or sw2 causes the outputs of the island to behave like Condition 2 instead of immediately going to Fallback mode.