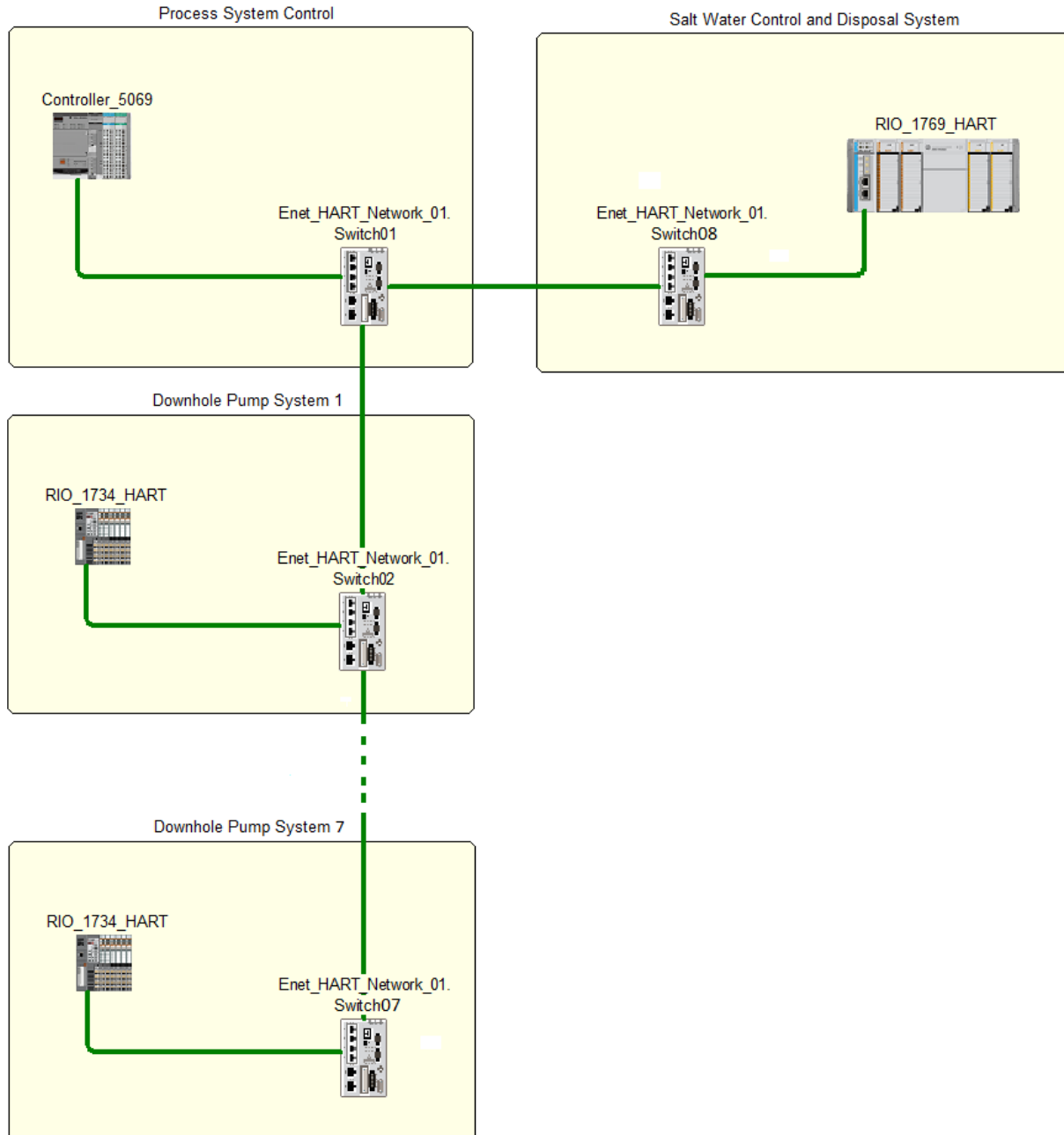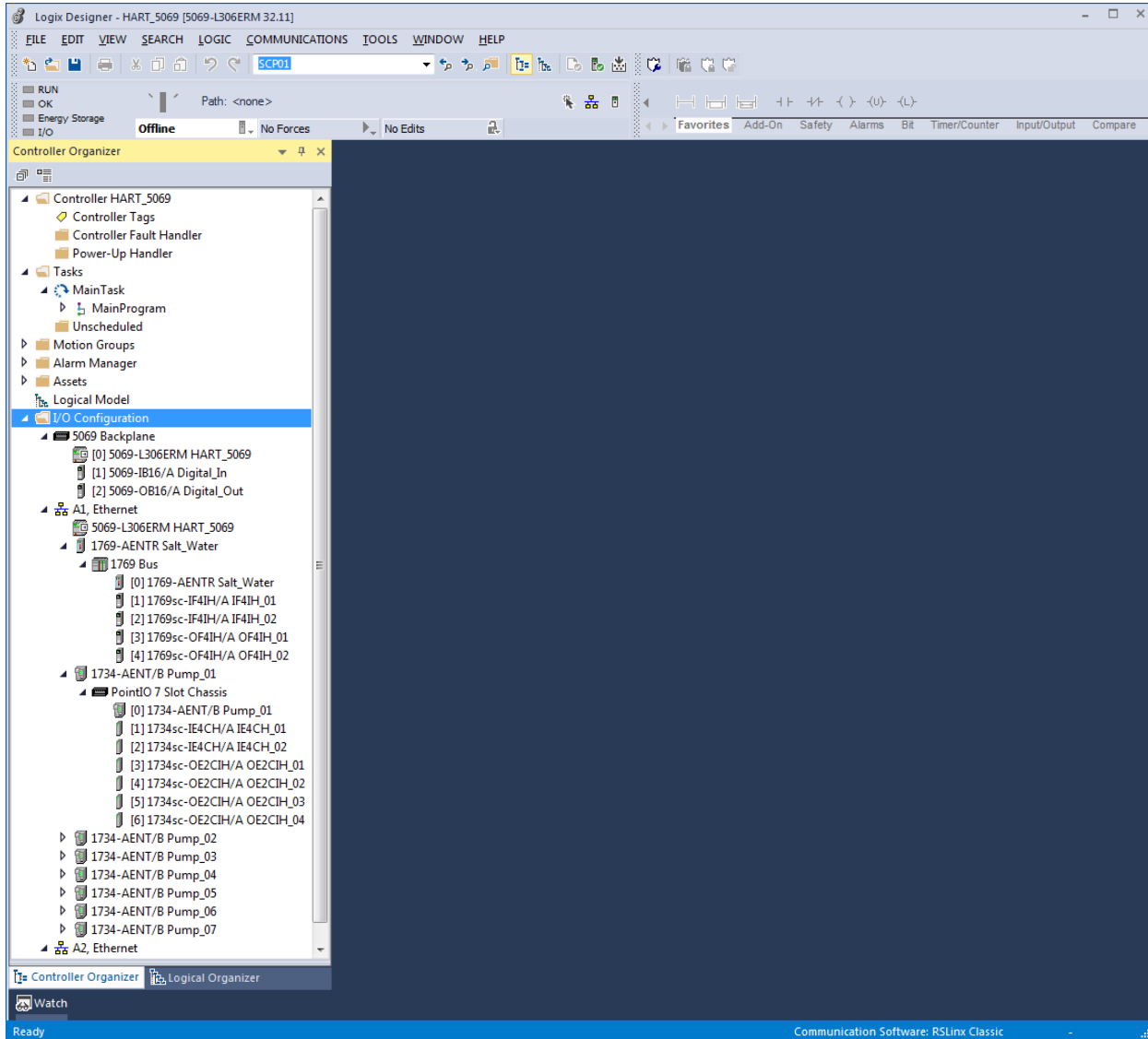The Rockwell 5069 platform does not contain any HART I/O, but this will not stop you from using HART instruments on a 5069 system since Spectrum Controls 1734 and 1769 HART I/O work normally as distributed I/O with the 5069 processors.

For system design, you can use Integrated Architecture Builder as shown in the following example:

A process control system may have one system produced by one manufacturer, and multiple systems produced by another manufacturer, each using their own normal type of I/O to integrate into the Process Control System. In this illustration there are 3 Rockwell platforms integrated together–the 5069, 1734, and 1769 platforms.

Spectrum Controls, Inc.
1705 132nd Ave NE
Bellevue, WA 98005 USA

Telephone: (425) 746-9481
Fax: (425) 641-9473
Web Site: www.spectrumcontrols.com

Here's how this looks in Studio 5000 (V32). All I/O components are acceptable to the I/O configuration, and the HART systems work exactly as if the controller were a 1769 or 1756 processor:

The 1734 HART I/O is a very popular choice because it automatically brings into the controller tags all four of the main HART variables for each enabled channel for a very low cost per module.

The 1769 HART I/O is a very popular choice for those that need the isolated channels, but it requires a little more work in software, as it requires the use of the standard RA Library of Process Objects. Search the PCDC for *Process Library* and select which version to use.

The V4 Process Library is compatible with Studio 5000 V24 and newer. The V5 Process Library has been significantly updated and so is only compatible with Studio 5000 V33 and newer–but as with all software, there are ways around compatibility!

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