SPECTRUM CONTROLS

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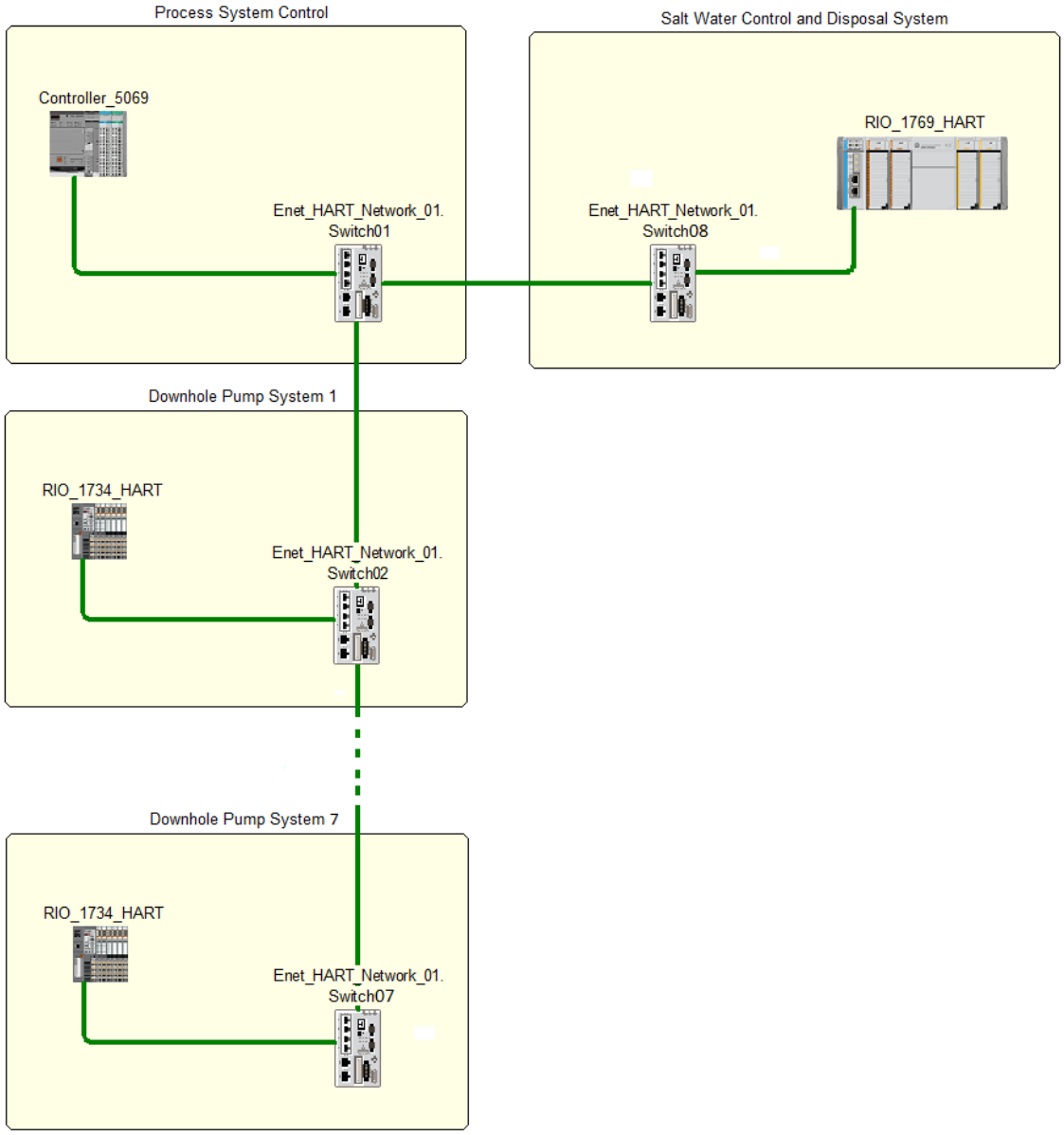
Application Note: Using Spectrum Controls HART IO with the 5069 Processors (V2)

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

For system design, you can use Integrated Architecture Builder. For example you can come up with something like this:



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 IO to integrate into the Process Control System. In this illustration there are 3 Rockwell platforms integrated together – the 5069, the 1734 and the 1769 platforms.

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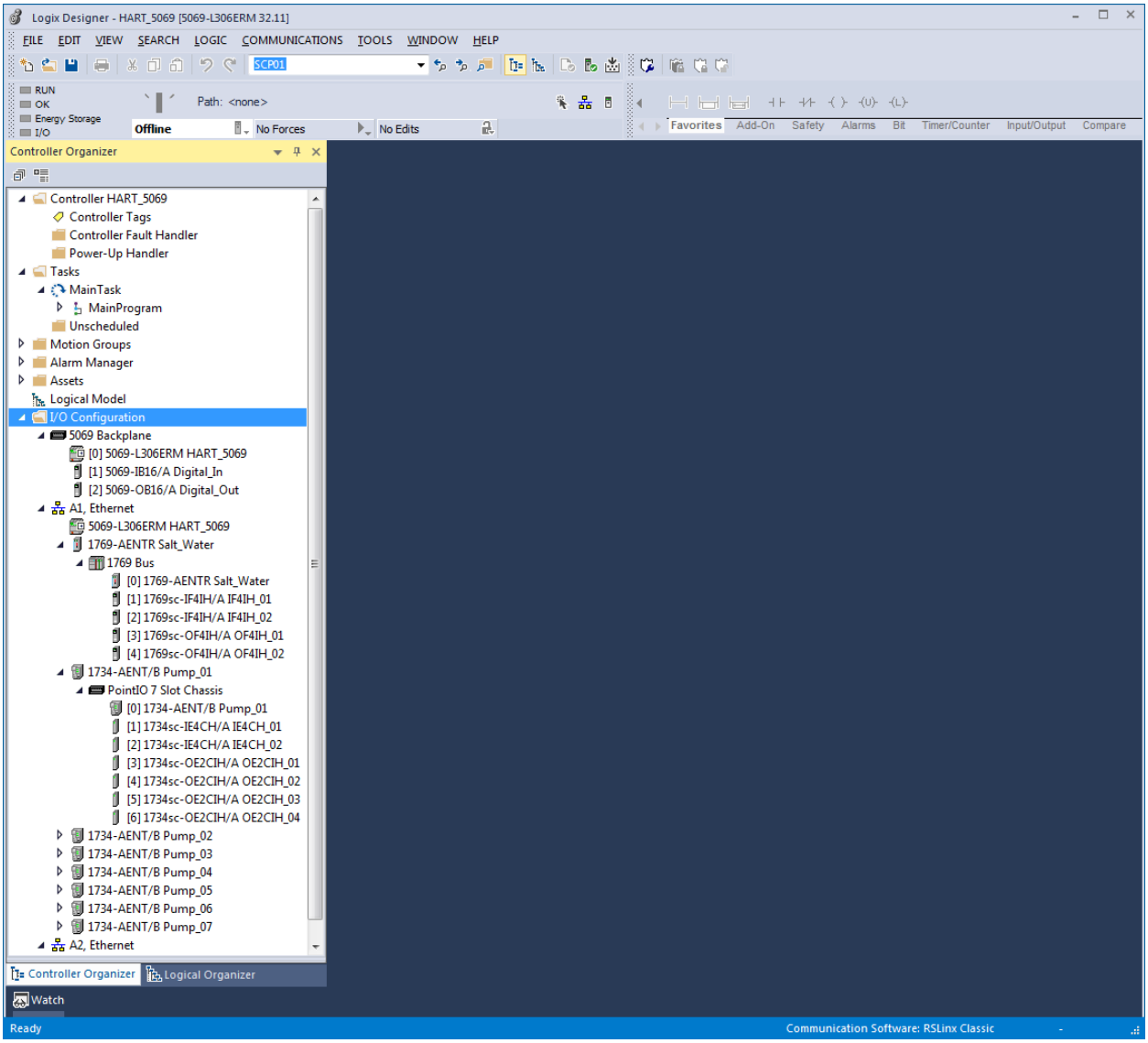
Here's how this looks in Studio 5000 (v32), all IO components are acceptable to the IO configuration, and the HART systems work exactly as if the controller were a 1769 or 1756 processor.



The 1734 HART IO 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 IO 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 like all software, there are ways around compatibility!