

Emerson Modernization Solutions

for Allen Bradley® 1771 I/O™ Installations

Getting there with minimum risk and cost is Emerson's goal for all modernization projects. It is time to modernize your aging, unsupported PLCs. The DeltaV™ control system delivers cutting edge technology, flexibility and ease-of-use to positively impact your business for the next generation.

DeltaV PK Controller

At the heart of the solution is the new DeltaV PK Controller. Powerful and versatile, it can standalone, be the mainstay controller in a new DeltaV system or easily integrate with an existing DeltaV system at any time.

To enable a fast, error free cutover without lifting existing field wiring, an innovative solution has been developed to fit in the same footprint as a standard 1771 I/O chassis.

Utilizing the PLC I/O module swing-arms, existing field wiring terminations are guided back onto a specially designed DeltaV signal conditioning card to pass the signals to standard DeltaV analog and discrete I/O cards.

Reusing the same footprint will reduce project cost by eliminating the need for new cabinets and re-terminating field wiring. Maintenance personnel will appreciate that they will be able to use a multi-meter at the swing-arms to test the field signals.

The initial release will support some of the most commonly used card types, as listed below:

- 1771-IAD, 16-channel, discrete input, 120 VAC, non-isolated,
- 1771-OAD, 16-channel, discrete output, 120 VAC, non-isolated,
- 1771-IBD, 16-channel, discrete input, 24 VDC, non-isolated,
- 171-OBD, 16-channel, discrete output, 24 VDC, non-isolated,
- 1771-IFE; 16-channel, analog input, 4-20 mA, single-ended.

Additional card types will be added in the near future to meet customer demand.

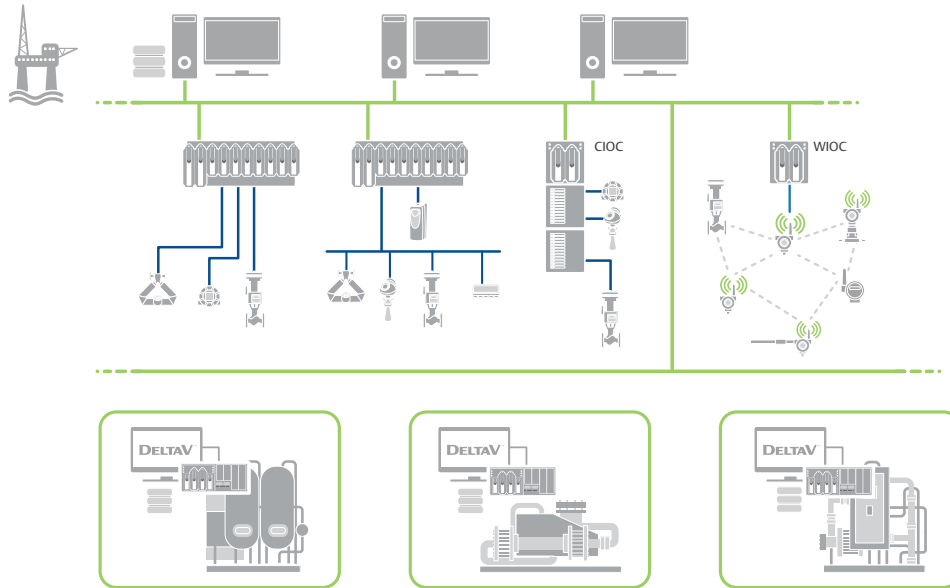
The solution is also fully applicable for 1771 I/O found under SLC™ 500, ControlLogix® and other control systems.

***Modernize to DeltaV
Control with minimal
rewiring and no
additional space.***

Typical Installations

The solution is a great fit to replace standalone PLC systems with a DeltaV PK Controller based system which can remain standalone, grow as a plant's main automation platform or merge into a new or existing DeltaV system at any time.

Scalable DeltaV PK Controllers and the 1771 I/O solution can be cost effectively used to replace PLC-5, SLC 500 or ControlLogix systems currently interfaced to a DeltaV system. The benefits of natively merging into a common platform will be realized with reduced spare parts, elimination of tag mapping, common engineering tools and lower training costs.



Services

Emerson and local business partners have vast experience modernizing legacy systems with over 5,400 projects delivered. Of these more than 1000 have been PLC systems. Unrivalled project management, planning, and execution services will ensure a smooth transition to a new DeltaV control system. In addition, sophisticated tools are available to lower the risk of errors when engineering the application and ensure the latest control capabilities are utilized to improve operations.

For more product solution details:

To locate a sales office near you: **Contact us.**

To learn more about Emerson migration capabilities: **Modernization & Migration.**

For large power, water, or wastewater applications: **Ovation.**

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