

FIRELEC Migration Solution

PROVOX™ > DeltaV™

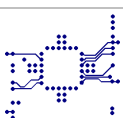
***PIA (PROVOX™ Interface
Adapters)***

FMS-PVXCL-DV-2

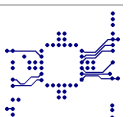
Mixed

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1. INTRODUCTION



The purpose of this document is to guide the user of a 20 series I/Os PROVOX™ system within the safe, efficient and easy way to migrate toward a DeltaV™ system.

FIRELEC has developed migration solution "**FMS-PVXCL-DV-2**" allowing to protect the existing wiring investment as the user converts from an existing PROVOX™ system (20-series I/Os) to the DeltaV™ system.

The **FMS-PVXCL-DV-2** solution is a set of migration adapters installed in place of the existing 20 series I/O cards into the CP6701 I/O files, allowing to connect easily existing PROVOX™ 20series I/O cables, to the DeltaV™ I/O cards.

The PROVOX™ 20series cables and the PROVOX™ I/O panels are kept in place. The SUBD connectors of this cables are then, through the PIA, connected to the DeltaV™ I/O cards using dedicated shielded cables with SUBD connectors at one end and numbered wires or suitable connectors (matching with the type of I/O block of the DeltaV™ card) at the other end.

1.1. KEY ADVANTAGES OF THE FMS-PVXCL-DV-2 SOLUTION

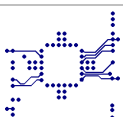
FMS-PVXCL-DV-2 solution protect your wiring investment as you convert from the PROVOX™ 20series system to the DeltaV™ system of Emerson Process Management with following advantages :

FMS-PVXCL-DV-2 is a pre-engineered marshalling solution ready to work without any technical rework or limitation regarding the existing capabilities of the PROVOX™ system to be migrated.

As the instrument wiring is not disturbed, the instrument checkout during startup is reduced to the minimum

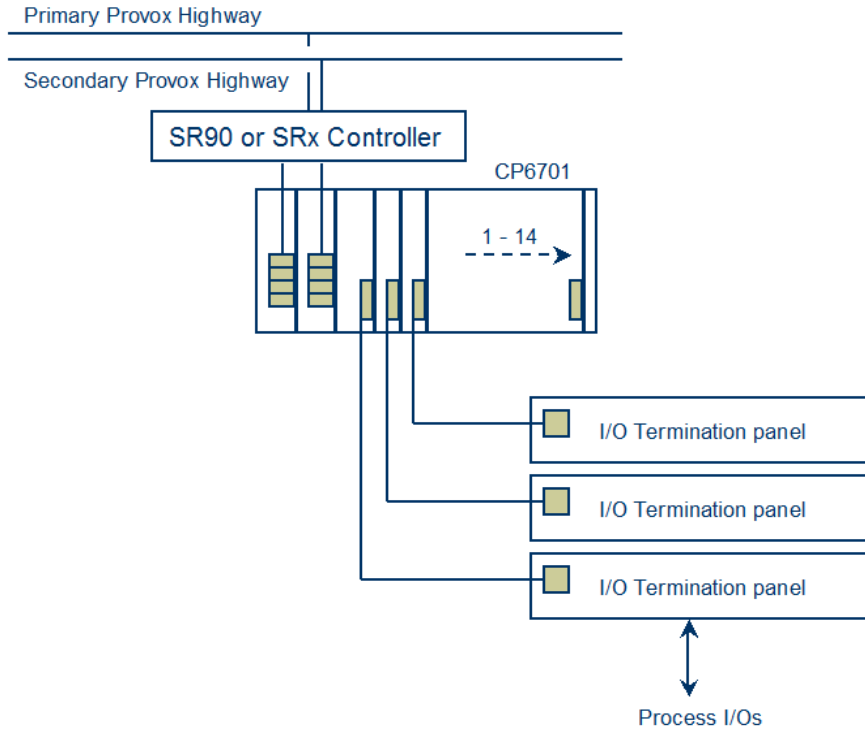
The DeltaV™ system's configuration allows for the engineering conversion to be done efficiently. The speed at which **FMS-PVXCL-DV-2** solution can be implemented ensures to reduce the process downtime to the minimum.

All existing documentations (electrical schemes, loop drawings, maintenance procedures,) remain unchanged as the existing I/O panels are kept in place.

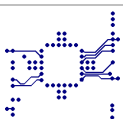
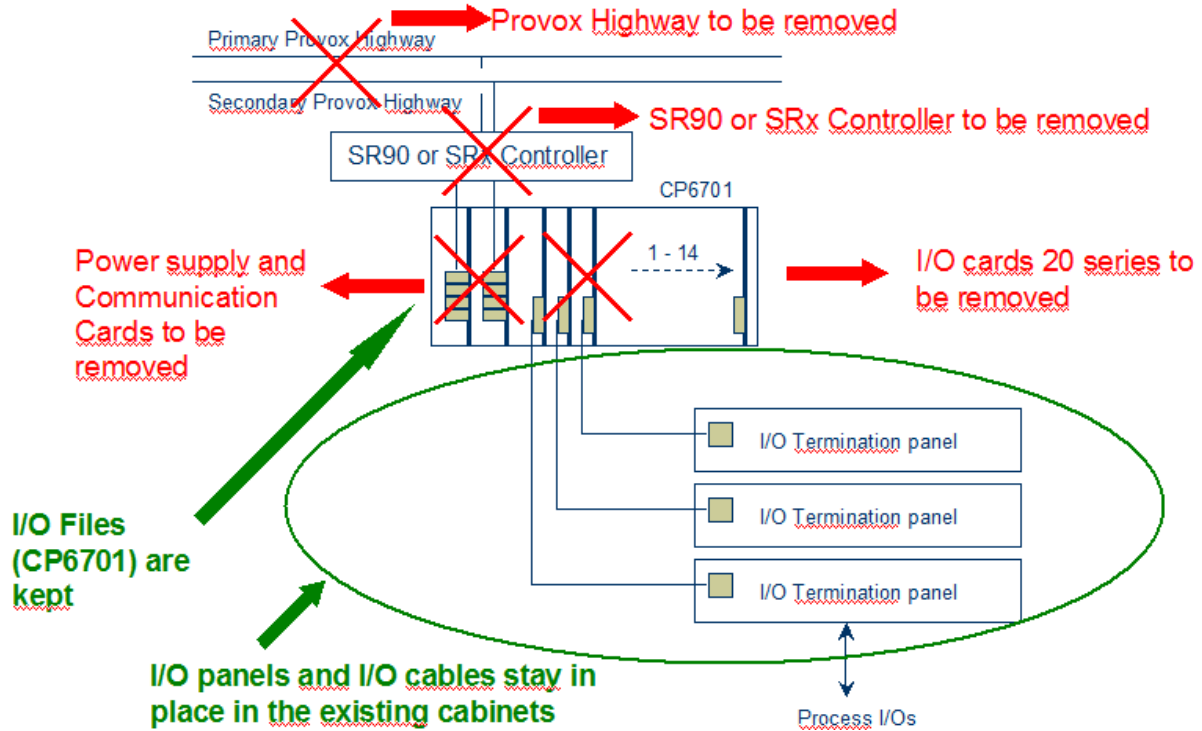


1.2. DESCRIPTION OF THE FMS-PVXCL-DV-2 SOLUTION

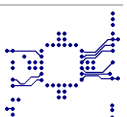
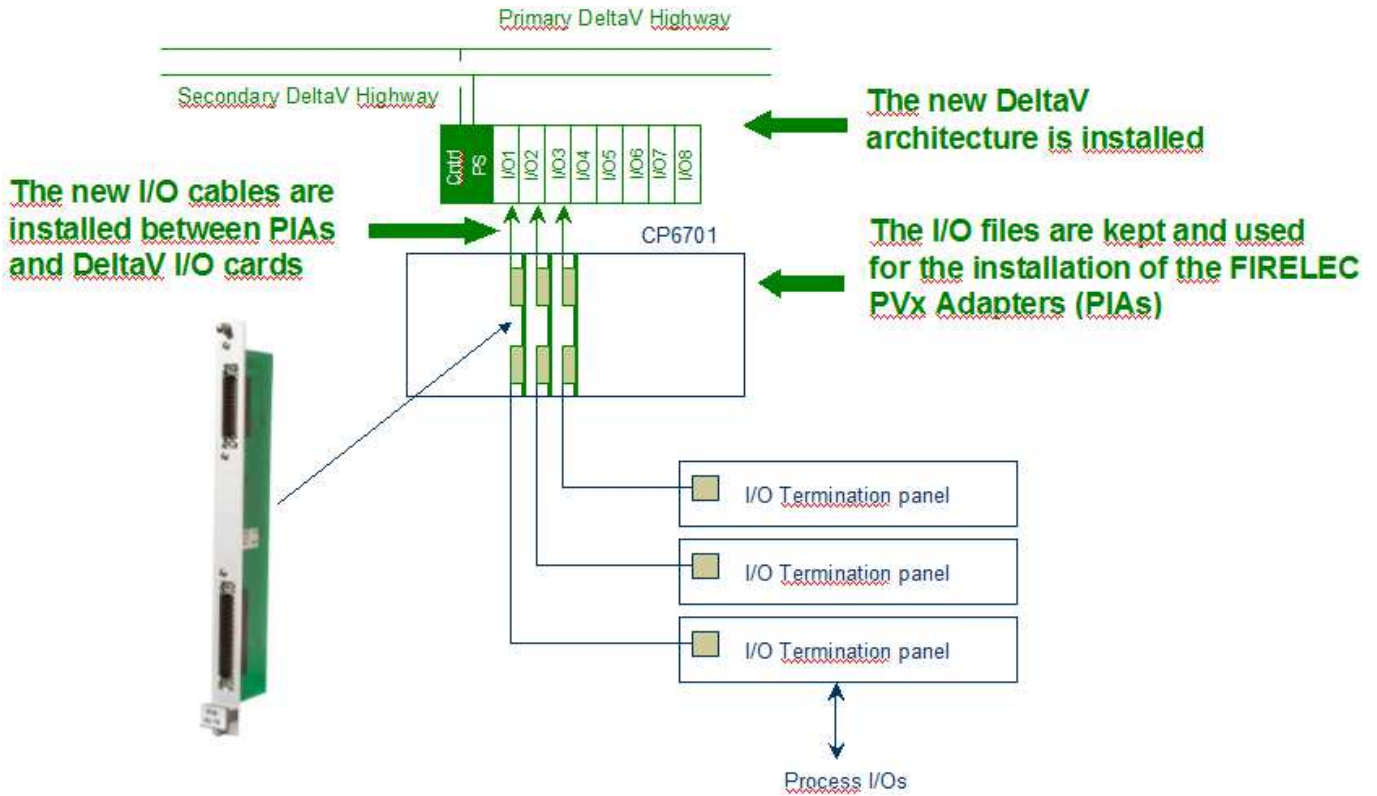
1.2.1. Existing PROVOX™ architecture



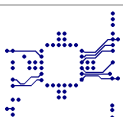
1.2.2. Existing PROVOX™ hardware to be removed



1.2.3. New DeltaV™ architecture

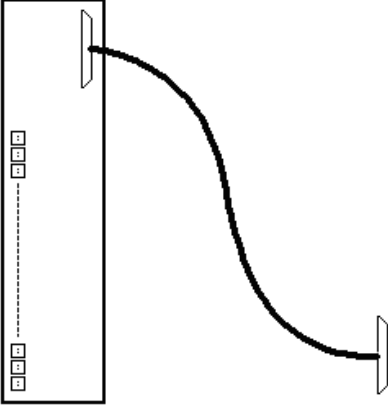

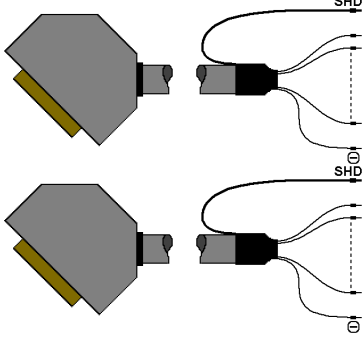
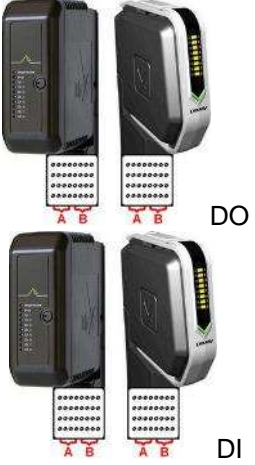


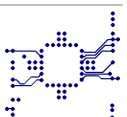
2. MIXED DISCRETE INPUTS / **OUTPUTS**



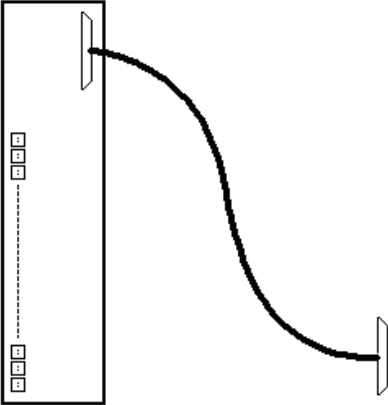

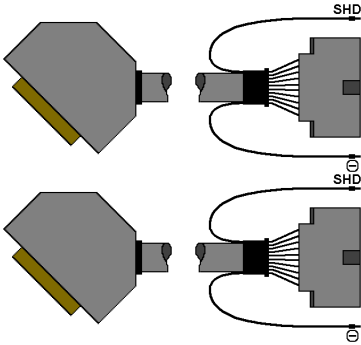
2.1. EXISTING CARD TO BE REMOVED : CL6721

2.1.1. Standard Discrete Input/Outputs Using Migration Adapters

New DeltaV™ architecture - FMS-PVXCL-DV-2-DIO1-A1			
Existing Panel	Adapter	Cable	I/O Card
<p>Panel CL6787 or CL6788</p> <p>Simplex or Redundant Discrete Input/Output Panel + Cable. 16 channels. With CL6754 modules installed.</p> 	<p>PIA-DI-DO-16</p> <p>Adapter installed in existing file CP6701</p> 	<p>CBL-792A (First 16ch) or CBL-792B (Last 16ch)</p> <p>Detail of the cable See cable section on www.firelec.com</p> 	<p>1/2 Card VE4002S1T2B5 / 1/2 Card SE4002S1T2B5 and 1/2 card VE4001S2T2B4 / 1/2 card SE4001S2T2B4</p> <p>Discrete Output card, 32 ch, Screw terminals and Discrete Input card, 32 ch, Screw terminals</p> 



New DeltaV™ architecture - FMS-PVXCL-DV-2-DIO1-A2

Existing Panel	Adapter	Cable	I/O Card
<p>Panel CL6787 or CL6788</p> <p>Simplex or Redundant Discrete Input/Output + Cable. 16 channels. With CL6754 modules installed.</p> 	<p>PIA-DI-DO-16</p> <p>Adapter installed in existing file CP6701</p> 	<p>CBL-773A (First 16ch) or CBL-773B (Last 16ch)</p> <p>Detail of the cable See cable section on www.firelec.com</p> 	<p>1/2 Card VE4002S1T2B6 / 1/2 Card SE4002S1T2B6 and 1/2 card VE4001S2T2B5 / 1/2 card SE4001S2T2B5</p> <p>Discrete Output card, 32ch, 40 pin Mass Termination and Discrete Input card, 32ch, 40 pin Mass Termination</p> 