FIRELEC Migration Solution

PROVOX™ > DeltaV™

PIA (PROVOX™ Interface Adapters)

FMS-PVXCL-DV-2

Mixed

CONTENTS

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.

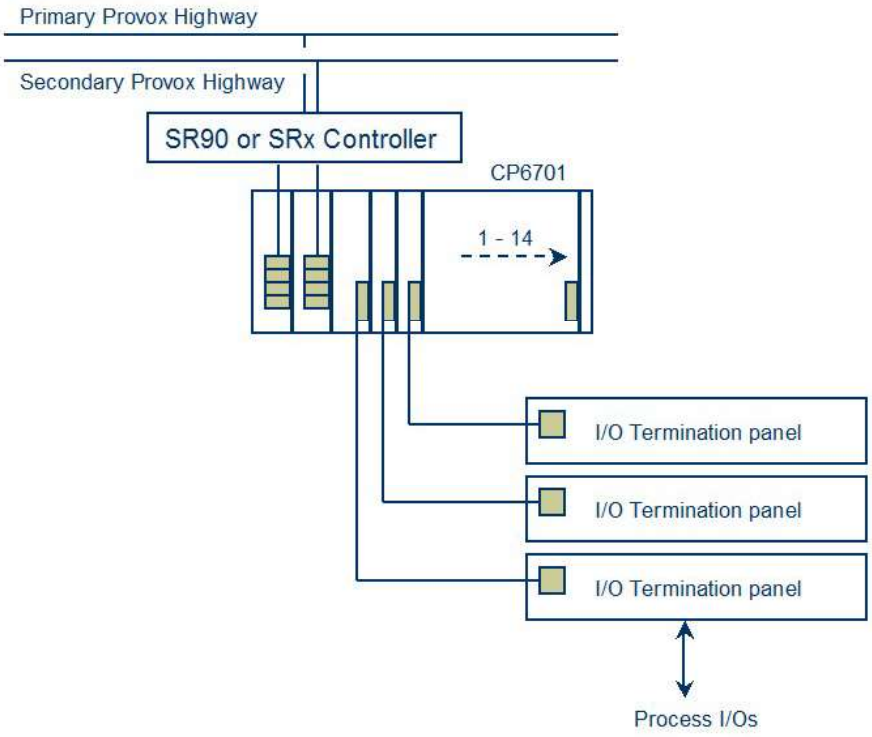
As the instrument wiring is not disturbed, the instrument checkout during startup is reduced to the minimum

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.

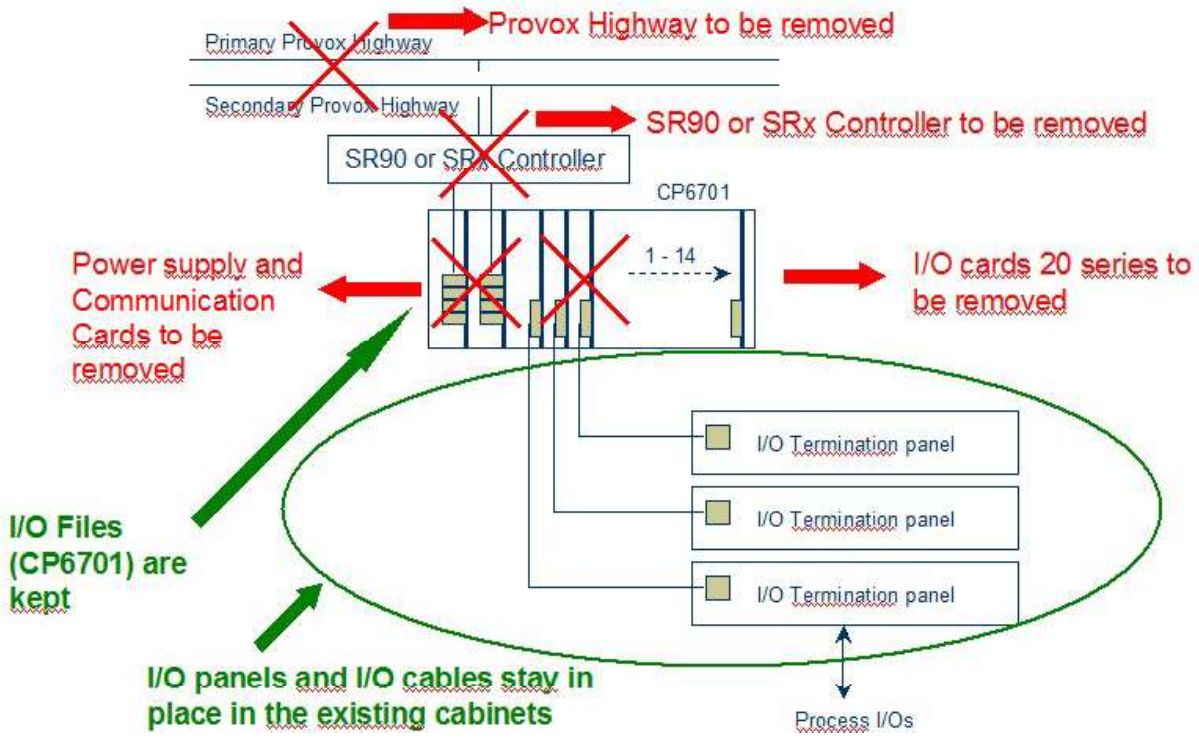
All existing documentations (electrical schemes, loop drawings, maintenance procedures, ...) remain unchanged as the existing I/O panels are kept in place.

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

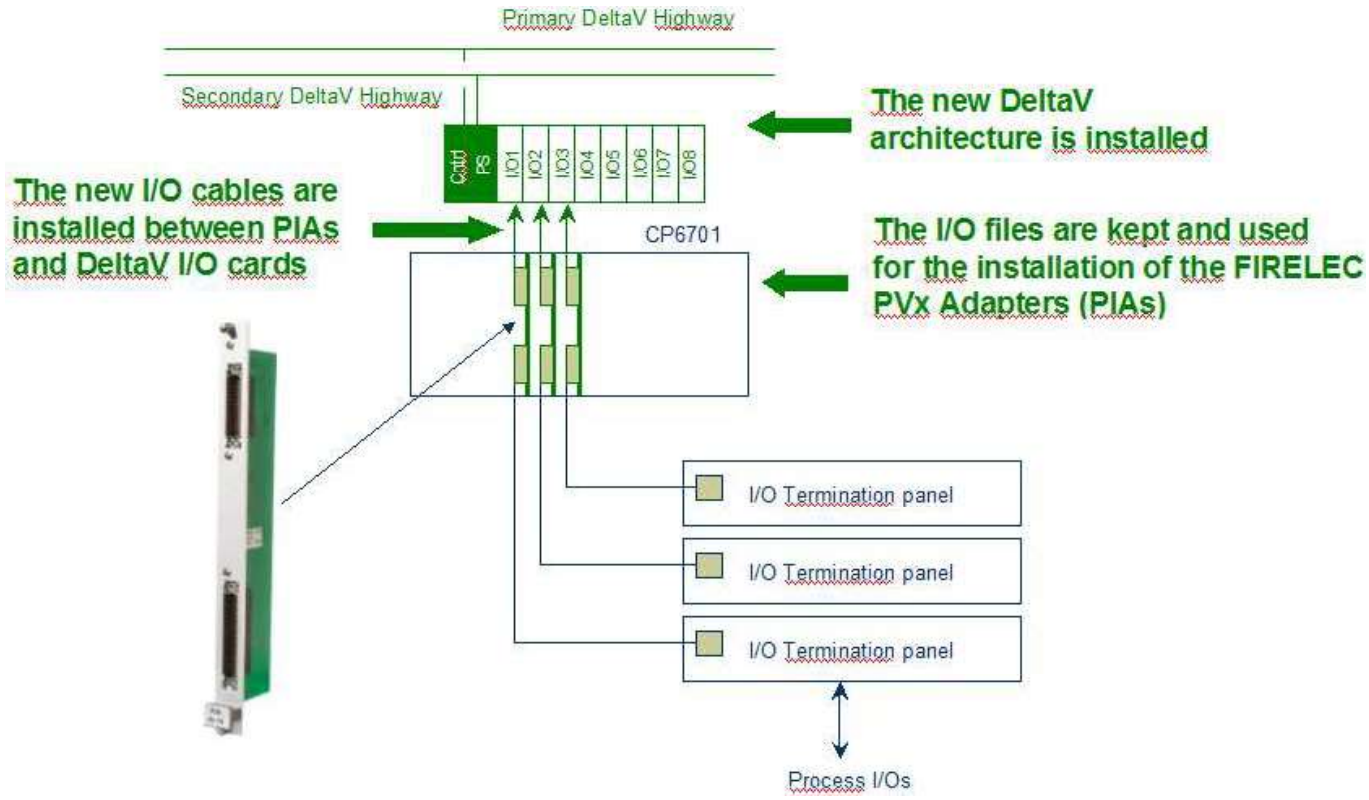
1.2.1. Existing PROVOX™ architecture



1.2.2. Existing PROVOX™ hardware to be removed



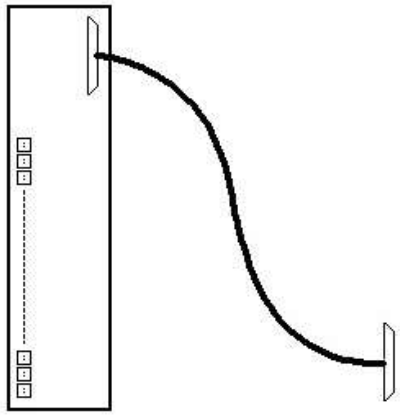
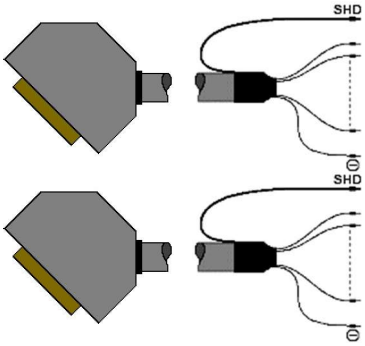
1.2.3.New DeltaV™ architecture

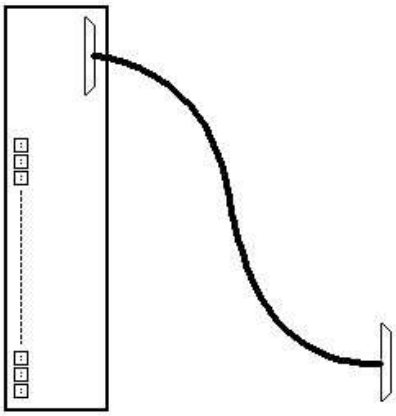
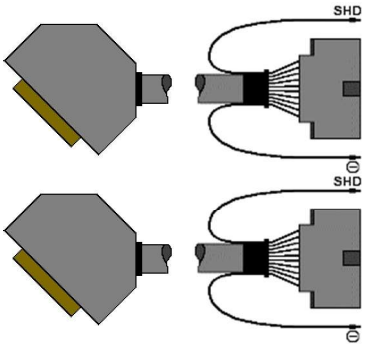


2. MIXED DISCRETE INPUTS / OUTPUTS

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**
Panel CL6787 or CL6788	**PIA-DI-DO-16**	**CBL-792A (First 16ch) or CBL-792B (Last 16ch)**	**½ Card VE4002S1T2B5 / ½ Card SE4002S1T2B5 and ½ card VE4001S2T2B4 / ½ card SE4001S2T2B4**
Simplex or Redundant Discrete Input/Output Panel + Cable. 16 channels. With CL6754 modules installed.	Adapter installed in existing file CP6701	Detail of the cable See cable section on www.firelec.com	Discrete Output card, 32 ch, Screw terminals and Discrete Input card, 32 ch, Screw terminals
			 DO DI

New DeltaV™ architecture - FMS-PVXCL-DV-2-DIO1-A2			
Existing Panel	**Adapter**	**Cable**	**I/O Card**
Panel CL6787 or CL6788	**PIA-DI-DO-16**	**CBL-773A (First 16ch) or CBL-773B (Last 16ch)**	**½ Card VE4002S1T2B6 / ½ Card SE4002S1T2B6 and ½ card VE4001S2T2B5 / ½ card SE4001S2T2B5**
Simplex or Redundant Discrete Input/Output + Cable. 16 channels. With CL6754 modules installed.	Adapter installed in existing file CP6701	Detail of the cable See cable section on www.firelec.com	Discrete Output card, 32ch, 40 pin Mass Termination and Discrete Input card, 32ch, 40 pin Mass Termination
			 DO DI