

# Rosemount SPI Integration Update

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5/14/2019

# Status Update

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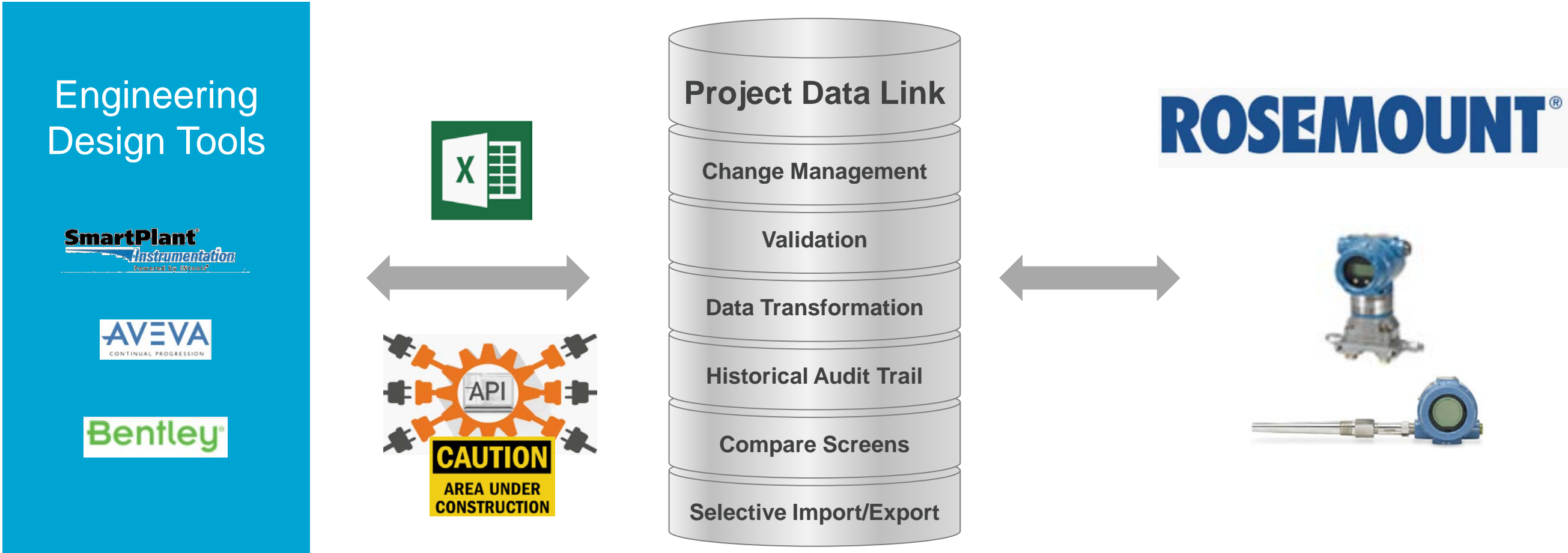
- **8+ year Emerson investment in Project Data Link**
- **Rosemount now has several projects running using the tool with adoption ramping quickly.**
- **Data-Driven configuration, Data-Centric workflows, and Optimized Data Exchanges are the pillars of project execution digitization.**

**Project Data Link is a Data Management and Configuration Automation tool.**

# Project Data Link Integration with EPC Engineering Tools

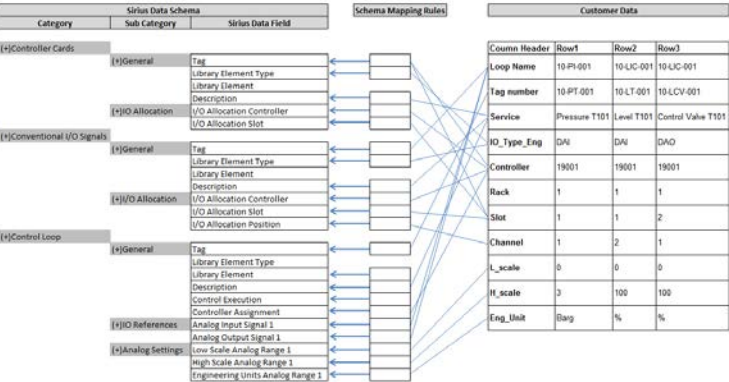
EPC

Emerson



**Project Data Link acts as Middleware Between Engineering Design Tools and Emerson Tools & Platforms**

# Reuse is at the core of Project Data Link



Tag	Category	Path	Scan Rate	Controller Assignment
-0512	Control Module		5	CTRL1
-0612	Control Module		1	CTRL1
FIG-2105	Control Module	R105	5	CTRL1
LH-5904	Control Module	R105	5	CTRL1
LH-6491	Control Module	R105	2	CTRL1
LIC-4301	Control Module	R105	2	CTRL1
P-5901	Control Module	R105	1	CTRL1
PIC-2235	Control Module	R105	1	CTRL1
TC-2132	Control Module	R105	5	CTRL1
X-5403	Control Module	R105	1	CTRL1
XL-6605	Control Module	R105	1	CTRL1
XV-2978	Control Module	R105	1	CTRL1

Customer Data processed using Schema Mapping Rule Set

Tag	Category	Library Element	Description
TIC-830-1	Control Lo...	MASTER_1	Bottom Prod...
XV-2008	Control Lo...	VALV_1_2	RX-1 to Colu...
XV-831-2	Control Lo...	VALVE_1_22	Feed Tank O...

## Mappings & Data Transformations

## System and Project Validations



**PDL now has the capability to easily add additional instrument types and fields**

## TAG Data & Structure for Project

**Promoting Reuse to mitigate risk, increase efficiency and increase quality – Invest to create it once and then leverage on future work**

# Optimized Data Exchanges – Revision Management

Field Changes

TAG Additions

Project Data Link - Exchange

Import Customer Data

Container Selection: No Container Customer Data: Pressure Transm... Pressure Transm... 2-120 Schema Mapping Rule Set: Rosemount Pressure Ext

Import Scope Filters

Tag:  Addition (11)  Deletion (7)  Modification (12)  Unchanged

Show only: [Select] Show Errors: [Select]

View: Show/Hide Columns Multi-level sort Find View History Jump To

Customer Data processed using Schema Mapping Rule Set

Tag	Category	Description	Line Number	Equipment
128PIT -049	Pressure	CONDENSER 7 VAPOR PRESSURE	20"-PCG136003-...	0
128PT -002A	Pressure	CONDENSER 7 VAPOR PRESSURE	20"-PCG136003-...	0
128PT -005	Pressure	CONDENSER 7 VAPOR PRESSURE		199922
128PTZ -004A	Pressure	CONDENSER 7 VAPOR PRESSURE	80"-PCG128407-...	0
131PT -471	Pressure	CONDENSER 7 VAPOR PRESSURE	76"-PCG131002-...	0
136PT -103	Pressure	E13611 TS OIL PRES	28"-PCG136001-...	0
136PT -104	Pressure	E13612 PRES TO C13801	24"-PCG136015-...	0
136PTZ -031A	Pressure	D13641A I/L PRES	20"-PCG136003-...	0
136PTZ -041A	Pressure	D13641B I/L PRES	20"-PCG136007-...	0
590PT -003	Pressure	HP FLR K.O. DRM V-59001	N/A	99251
590PT -010	Pressure	LP FLR TO CONT VT THRM OXD A-59003	12"-BLF590011-1..	76439
590PT -014	Pressure	PE U VT TO LP MULT PT GRD FLR A-59004	10"-BLF590010-1..	76439
590PT -018	Pressure	EMER RLF TO LP MULT PT GRD FLR A-59004	30"-BLF590601-1..	77544
590PT -028	Pressure	HP FLR FRM HP FLR K.O. DRM V-59001	72"-BF590002-11..	99251
590PT -028	Pressure	HP FLR FRM HP FLR K.O. DRM V-59001	20"-BLF642101-1..	76439
590PT -055	Pressure	HP FLR TO HP ELEVATED FLR A-59002	72"-BF590004-11..	115782
600PT -902	Pressure	N2 TO HEXENE VAP RETURN ARM SPOT#8	2"-N600010-11001	77544
600PT -904	Pressure	N2 TO BUTENE VAP RETURN ARM SPOT#4	2"-N600009-1100..	77544
642PT -054	Pressure	K-64203 INLET PRESS	2"-BF642308-110..	101894

Tag Data in Project Data Link as retrieved on 23-Oct-2018, 19:28:09

Tag	Category	Description	Line Number	Equipment
128PIT -049	Pressure		24"-WQ128557-3..	0
128PT -002A	Pressure		30"-PGH128003-...	0
128PT -005	Pressure			199922
128PTZ -004A	Pressure		80"-PCG128407-...	0
131PT -471	Pressure		76"-PCG131002-...	0
136PT -103	Pressure	E13611 TS OIL PRES	28"-PCG136001-...	0
136PT -104	Pressure	E13612 PRES TO C13801	24"-PCG136015-...	0
136PTZ -031A	Pressure	D13641A I/L PRES	20"-PCG136003-...	0
136PT -131	Pressure	IA PRES TO 136UZV131		0
136PT -425	Pressure	IA PRES TO 136UZV425		0

Displayed Tags: 30 of total 126

Save to File Import Cancel

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TAG Deletions

Comparison User Interface provides quick insights into data to proactively identify integrity and completeness issues reducing rework and optimizing data exchanges

# Key Benefits

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- Minimizes schedule risk by providing moment-to-moment data integrity and providing more flexibility in adapting to changes (manage change more efficiently)
- Opportunity to eliminate paper based exchanges with data (faster turnaround times)
- Reduces error “domino effect” and rework due to manual data entry (human error)
- Reduces FAT time and effort (less findings due to higher quality data)
- Eliminates time for manually identifying changes to data
- Historical Audit Trail provides visibility into all changes during the project
- Embedded Data Validation engine that supports both system and project constraints
- Improved Data Integrity reduces manual validation within EPC/Customer software design tools
- Incorporates best engineering practices (validations, workflow, standardization)
- Reduces errors with data consistency (standard forms and data exchange formats)

Thank You