



ACCELERATING INNOVATION



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INNOVATION

Flexible Feature Management with DeltaV™ AgileOps

Disclaimer

The following slides discuss future development plans and are forward-looking in nature. They do not represent a commitment to deliver specific functionality within a specific timeframe. Actual features in future releases may differ from what is shown here.

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Inquiries should be directed to:
EmersonExchange@Emerson.com



David Solberg

Product Marketing Manager, Performance Software / Emerson



Alex Parker

Application Engineering Manager / Emerson



Agenda

ALEX PARKER

DeltaV AgileOps Overview

V5.LTS CU1 and v5.LTS CU2

DAVID SOLBERG

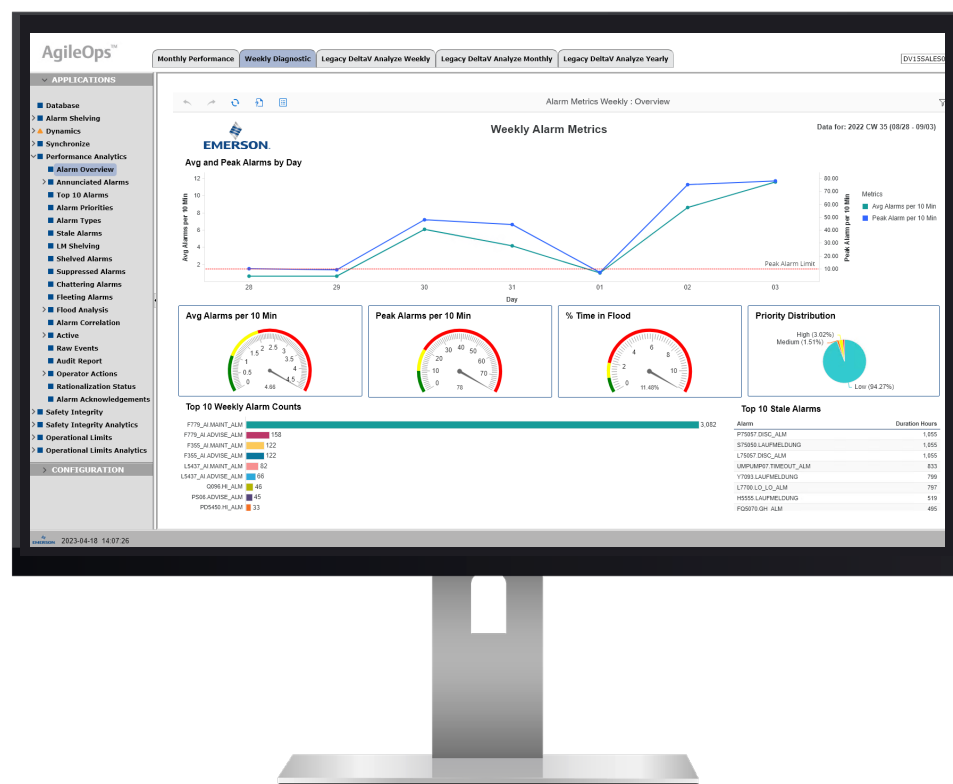
V5.LTS CU3 and Future

DeltaV AgileOps Flexible Subscription Exclusive Features

DeltaV AgileOps Overview

DeltaV AgileOps Operations Management Software

New module names more representative of functionality



Performance Analytics *previously EventKPI*

Monitor alarm & event metrics across the unit, site or enterprise

Database *previously Master Control System Database*

Online database compatible with ISA 18.2 and IEC 62682

Dynamics *previously Dynamic Management*

Allows the alarm configuration to change based on operating state

Alarm Shelving *previously List Management*

Advanced alarm shelving to reduce nuisance alarms

Safety Integrity *previously SIF Tracker*

Track the integrity of safety systems

Operational Limits *previously Input Tracker*

Monitor bypasses, interlocks, operating envelopes & IOWs

User Driven Enhancement Program for DeltaV AgileOps

Do you have an idea for an enhancement to one of Emerson Automation Solutions offerings?

Share it at
userideas-emerson.com

As part of Emerson's commitment to innovation, continuous improvement, and close collaboration with customers, the User Driven Enhancement Program (UDEP) was created to give the Emerson user community a coordinated voice to directly participate in and influence Emerson's product enhancement plans.

The program provides a formal mechanism for users to directly input and drive the development of specific enhancement ideas to existing functionality they value most and would like to see in Emerson Automation Solutions offerings.



Roadmap

What's New in DeltaV AgileOps v5.LTS CU1

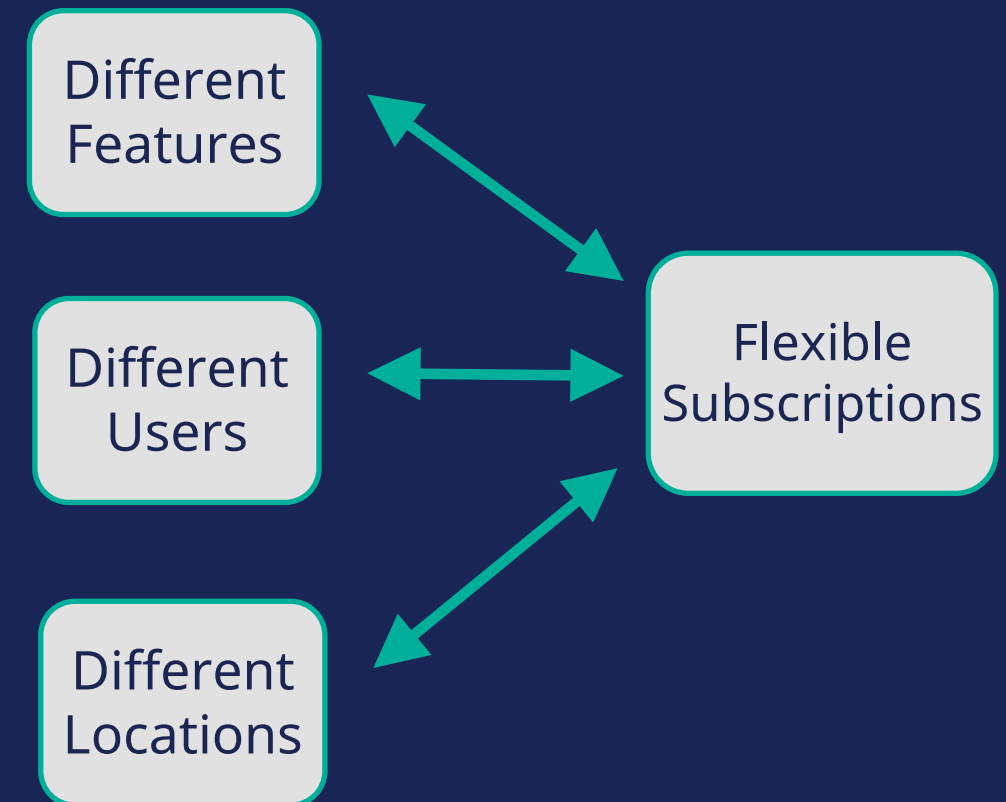
v5.LTS CU1

- Flexible Subscription license support
- Support Soft Licenses within HMIF
- Performance Analytics smart report available for Subscription Users
(Recommended actions to take report)
- Support for Wonderware connection

Flexible Subscriptions

Flexible Licensing Model

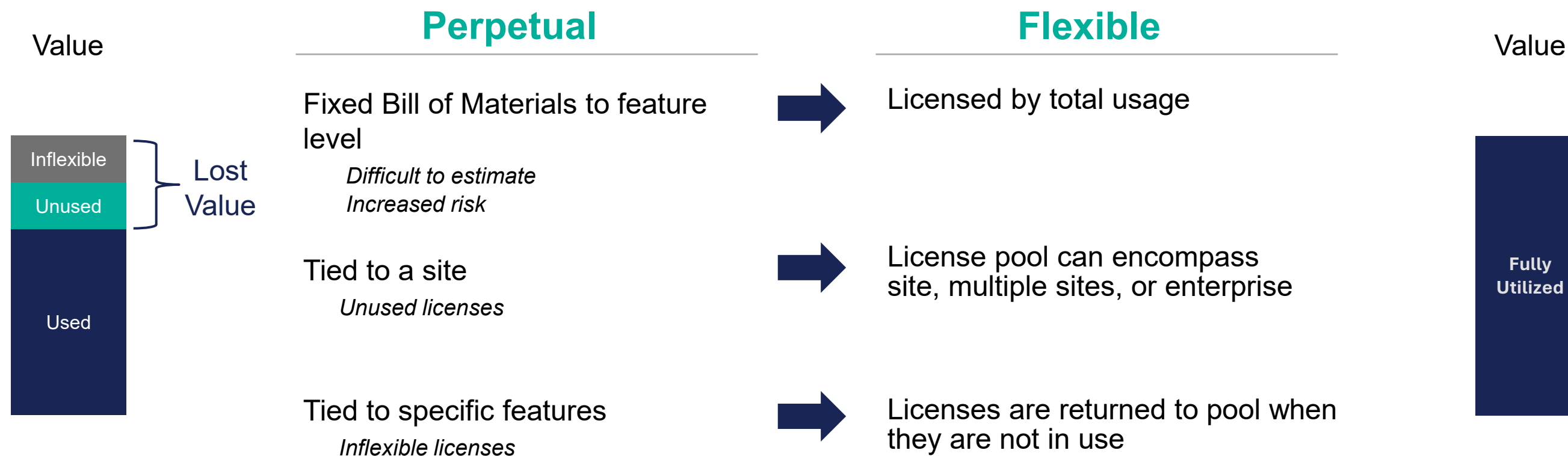
- When licenses are used, licenses are checked out from the license pool
- When licenses are unused, they can be returned to the pool
- Allowing you to maximize when and where the software drives the most value for your organization
- Users are not locked out of features that have not been licensed yet



What is a Flexible Subscription?

Flexible Subscription

A new mechanism that allows you to utilize your licenses **WHEN** and **WHERE** you want



Using Flexible Subscription to Solve Problems

1 Complex BOMs for definition of software licenses on projects.

→ Easy to define and scale licensing for projects.

2 Unused licenses are trapped at a site.
Example: User licenses 10 workspaces at Site A and only uses 9

→ User will only use Flexible Subscription for 9 workspaces at Site A. Additional Flexible Subscription would be available for other sites. No licenses are stranded at a site.

3 Difficult to scale from site to enterprise.

→ Flexible Subscriptions automatically scale from site to enterprise based on the volume. User gets credit for increased volume and does not need to renegotiate discounts.
Flexible Subscription distribution to sites is built in. License pool can be used to distribute license to sites easily.

Performance Analytics Smart Recommendations Report

- The recommendations overview report automatically provides a quick list of key actions to take to address poor alarm performance.
- Alarm flood reduction by addressing chattering alarms
- Fleeting alarm reduction
- Stale alarm review
- Top 10 bad actor review

EMERSON Performance Analytics Recommended Actions Report

Flood Reduction:
Reduce alarm floods by 20% by addressing the following chattering alarms:

Alarm	Description	Total Chattering Alarm Count	Total Chattering Duration (min)	OnDelay (sec)	OffDelay (sec)
F779_AI MAINT_ALM	Test Module Description for Demo	3,953	865	18	18
LS437_AI MAINT_ALM	Test Module Description for Demo	927	299	1	1
LS437_AI ADVISE_ALM	Test Module Description for Demo	702	171	2	2

Fleeting Reduction:
Reduce fleeting by 100% by addressing the following fleeting alarms:

Alarm	Description	Total Fleeting Alarm Count	Total Fleeting Duration (sec)	OnDelay (sec)
F779_AI MAINT_ALM	Test Module Description for Demo	2,723	18,217	18
O096_HI_ALM	Test Module Description for Demo	475	1,870	1
LS437_AI MAINT_ALM	Test Module Description for Demo	432	2,511	2

Stale Alarms Review:
Review the following stale alarm configurations:

Alarm	Description	Ind Stale Duration (hrs)
F07640_GH_ALM	Test Module Description for Demo	483.2
F7670_LO_ALM	Test Module Description for Demo	43.9
F7666_LO_ALM	Test Module Description for Demo	44.3
P7675_HI_ALM	Test Module Description for Demo	41.8

Top 10 Alarms Review:
Review the following frequent alarm configurations:
(To reduce alarming by up to 34%)

Alarm	Description	Event Category	Alarm Count
F779_AI MAINT_ALM	Test Module Description for Demo	System Alarm	5,997
PD7083_AI ADVISE_ALM	Test Module Description for Demo	System Alarm	1,472
PD7083_AI MAINT_ALM	Test Module Description for Demo	System Alarm	1,472
PS07_ADVISE_ALM	Test Module Description for Demo	System Alarm	1,346

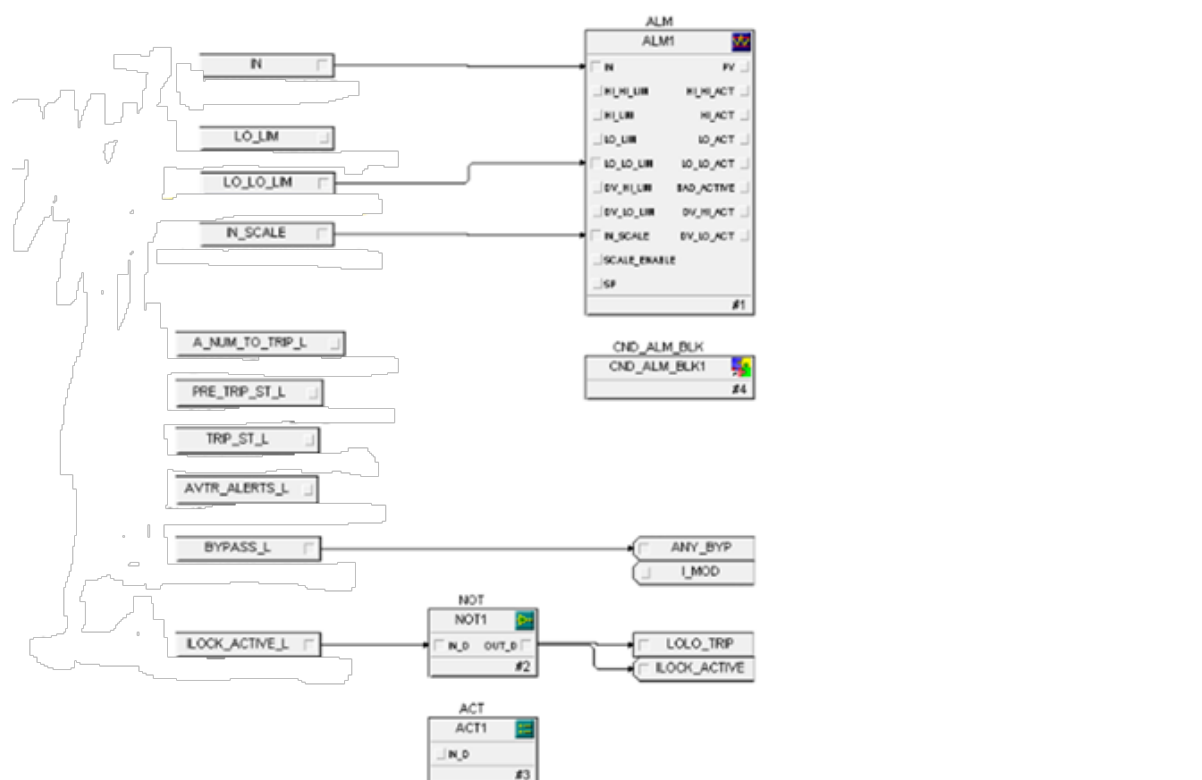
What's New in DeltaV AgileOps v5.LTS CU2

v5.LTS CU2

- Major Installer improvements
- QOL and performance improvements
- SmartBrowse wire tracing updates
- Database and Alarm Shelving additional logging for life science
- Framework shortened internal OPC DA watchdog to match DeltaV WS update
- Visio plugin improvements
- Performance Analytics additional details in reports
- Latest version of MicroStrategy supported
- Bug Fixes

Wire Tracing

LO_LO_LIM is a reference REF="//SIS001/LSAVTR2L/TRIP_LIM"



Alarm	Word	State	Parameter	Link value	Enable	Inverted	Priority	%P1 parameter	%P2 parameter	Functional Classification	Alarm Help
BADPV_ALM	IOF		ALM1.BAD_ACTIVE		True	False	CRITL...			Not classified	False
DV_H_ALM	DEV		ALM1.DV_H_ACT		False	False	LOG	ALM1.PV	ALM1.DV_H_LIM	Not classified	False
DV_LO_ALM	DEV		ALM1.DV_LO_ACT		False	False	LOG	ALM1.PV	ALM1.DV_LO_LIM	Not classified	False
H_ALM	YLÄ		ALM1.H_ACT		False	False	SISW...	ALM1.PV	ALM1.H_LIM	Not classified	False
H_H_ALM	YLÄYLÄ		ALM1.H_H_ACT		False	False	SISC...	ALM1.PV	ALM1.H_H_LIM	Not classified	False
LO_ALM	ALA		ALM1.LO_ACT		True	False	SISW...	ALM1.PV	ALM1.LO_LIM	Not classified	False
LO_LO_ALM	ALA-ALA		ALM1.LO_LO_ACT		True	False	SISC...	ALM1.PV	ALM1.LO_LO_LIM	Not classified	False

The screenshot shows a software interface with a list of parameters on the left and a table of values on the right. The list includes parameters like LSAI1, LSAI11, LSAI12, LSAI13, LSAI2, LSAI21, LSAI22, LSAI23, LSAI24, LSAI25, LSAI26, LSAVTR1L, LSAVTR1L1, LSAVTR1L2, LSAVTR1L3, LSAVTR1L4, LSAVTR1L5, LSAVTR1L6, LSAVTR1L7, LSAVTR1L8, LSAVTR1L9, LSAVTR1L10, LSAVTR1L11, LSAVTR1L12, LSAVTR1L13, LSAVTR1L14, LSAVTR1L15, LSAVTR1L16, LSAVTR1L17, LSAVTR1L18, LSAVTR1L19, LSAVTR1L20, LSAVTR1L21, LSAVTR1L22, LSAVTR1L23, LSAVTR1L24, LSAVTR1L25, LSAVTR1L26, LSAVTR1L27, LSAVTR1L28, LSAVTR1L29, LSAVTR1L30, LSAVTR1L31, LSAVTR1L32, LSAVTR1L33, LSAVTR1L34, LSAVTR1L35, LSAVTR1L36, LSAVTR1L37, LSAVTR1L38, LSAVTR1L39, LSAVTR1L40, LSAVTR1L41, LSAVTR1L42, LSAVTR1L43, LSAVTR1L44, LSAVTR1L45, LSAVTR1L46, LSAVTR1L47, LSAVTR1L48, LSAVTR1L49, LSAVTR1L50, LSAVTR1L51, LSAVTR1L52, LSAVTR1L53, LSAVTR1L54, LSAVTR1L55, LSAVTR1L56, LSAVTR1L57, LSAVTR1L58, LSAVTR1L59, LSAVTR1L60, LSAVTR1L61, LSAVTR1L62, LSAVTR1L63, LSAVTR1L64, LSAVTR1L65, LSAVTR1L66, LSAVTR1L67, LSAVTR1L68, LSAVTR1L69, LSAVTR1L70, LSAVTR1L71, LSAVTR1L72, LSAVTR1L73, LSAVTR1L74, LSAVTR1L75, LSAVTR1L76, LSAVTR1L77, LSAVTR1L78, LSAVTR1L79, LSAVTR1L80, LSAVTR1L81, LSAVTR1L82, LSAVTR1L83, LSAVTR1L84, LSAVTR1L85, LSAVTR1L86, LSAVTR1L87, LSAVTR1L88, LSAVTR1L89, LSAVTR1L90, LSAVTR1L91, LSAVTR1L92, LSAVTR1L93, LSAVTR1L94, LSAVTR1L95, LSAVTR1L96, LSAVTR1L97, LSAVTR1L98, LSAVTR1L99, LSAVTR1L100. The table on the right shows the values for these parameters, with some values highlighted in yellow.

Property Values for Alarm

Edit	Enforceable	Promote	System	Name	Last Read	Last Proposed	Last Approved	Details
			N/A	Design Status	Not Evaluated			
			N/A	Suggested Priority	(Not Applicable)			
			N/A	Priority Rationale				
			N/A	Eclipsing				
			N/A	Banner Text				
			N/A	SIS Activation	False			
			MainBoiler	Trip Point	0.5		0.5	
			N/A	Source	0			
			MainBoiler	Priority	WARNING		WARNING	
			MainBoiler	Management Status	Normal			

1) Design Status=>Management Status

What's New in DeltaV AgileOps v5.LTS CU3

v5.LTS CU3 (Available after Exchange)

- Templates Trip Point tracing (5.LTS+), now robust in 5.LTS CU3
- Enhanced tracking and mapping for batch systems
- Remote connection
- New Alarm Shelving feature allowing you to remove all alarms at a set time
- New composite template blocks for AgileOps Dynamics and Safety Integrity
- New historical events connection added for NovaTech D/3 (Valmet D3)
- Flexible Subscription available for MicroStrategy users
- Configuration moved to the database
- Installer rework to simplify process

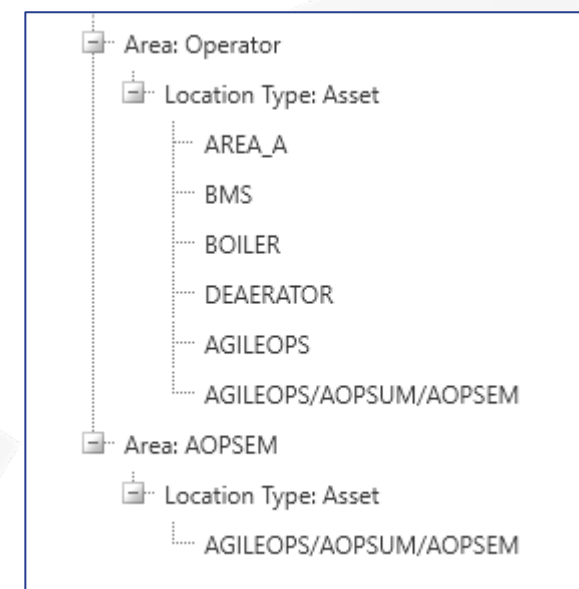
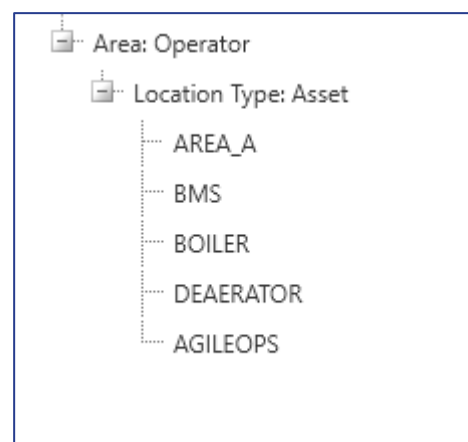
Batch Mapping Update

- Currently AgileOps will only map events and group them at the area level.
- The new option can be enabled through the connection to allow more locations for mapping including the UM and EM levels of the hierarchy; allowing metric reporting at either the DeltaV Area, UM or EM level (Or any combinations thereof)

Use Extended Location Mapping 

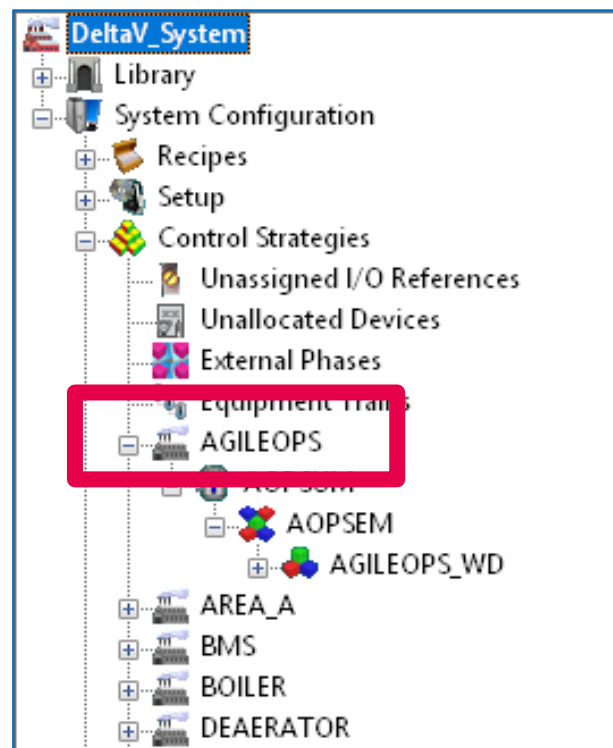
Journal Priorities 

Extended Location Mapping will concatenate the Plant Area with the relevant Unit information.

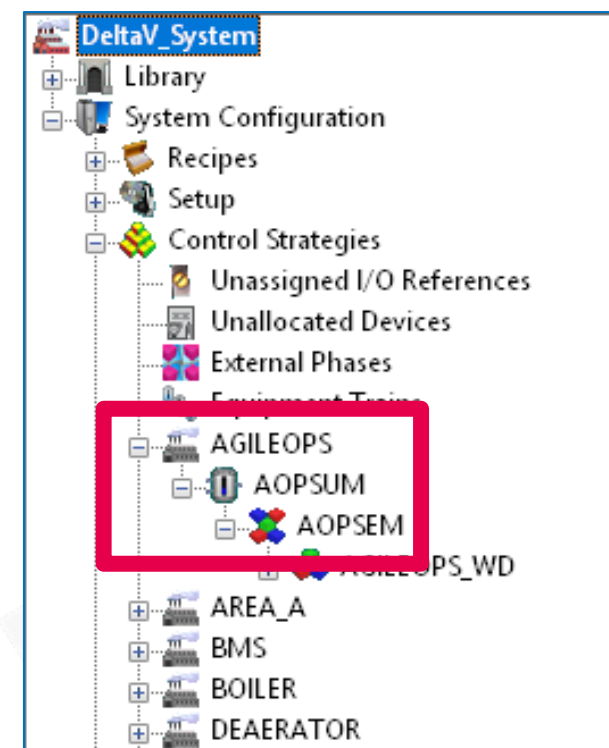


Batch Mapping Update

Current Event Mapping Location Detection



New Event Mapping Location Option



Locations

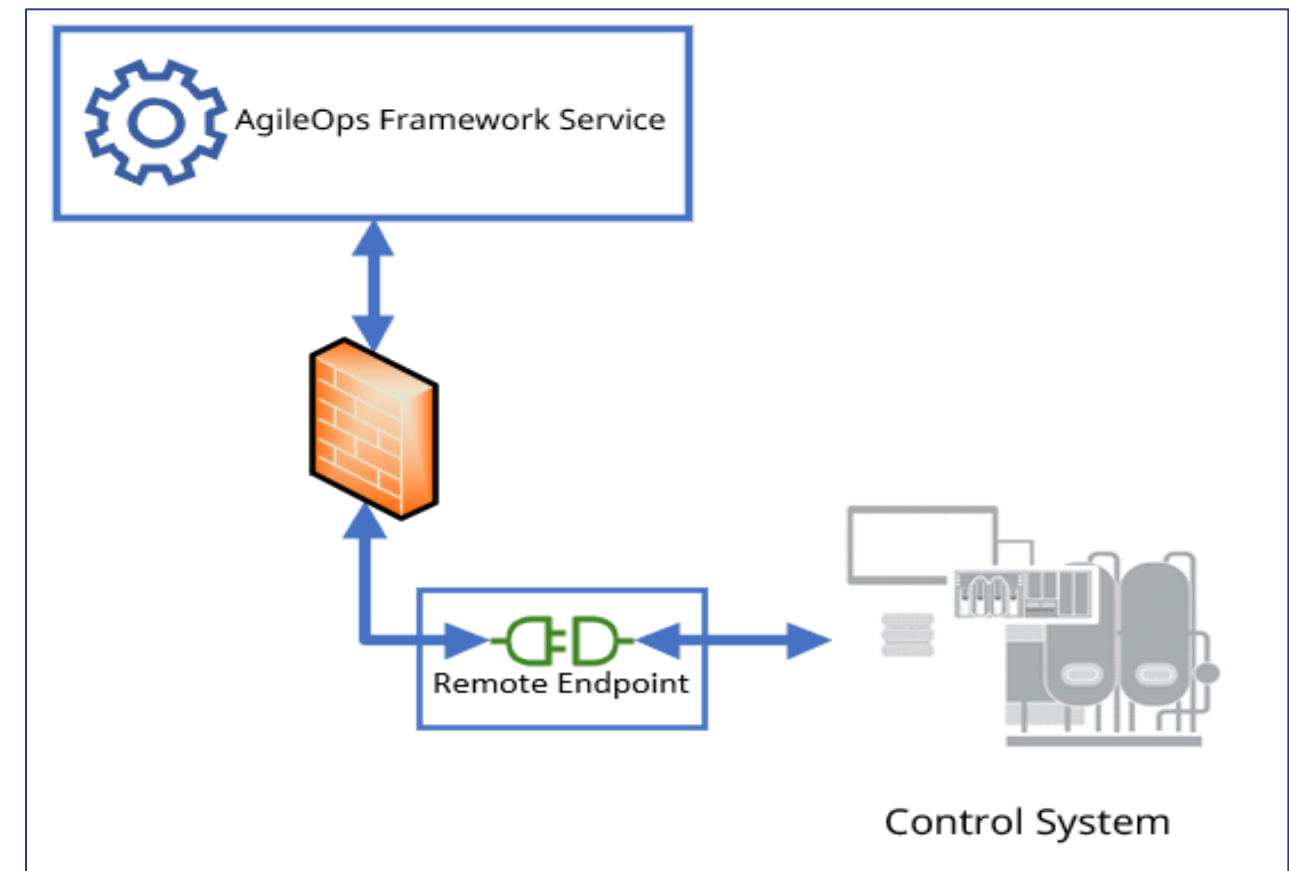
Name	Location Type	Edit	Delete
AGILEOPS	Asset		
AREA_A	Asset		
BMS	Asset		
BOILER	Asset		

Locations

Name	Location Type	Edit	Delete
AGILEOPS	Asset		
AGILEOPS/AOPSUM	Asset		
AGILEOPS/AOPSUM/AOPSEM	Asset		
BMS	Asset		

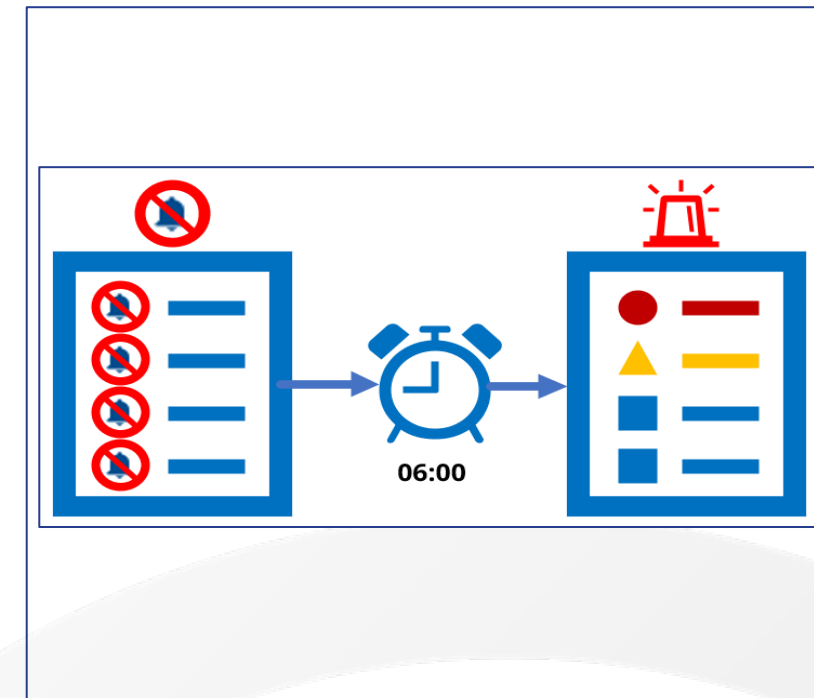
Remote Connection to Control Systems

- Installer allows configuration for remote connections as a server and a client.
- A client computer can connect to a server computer using the remote connection type and a targeted connection on the server to link into Connection Services and upstream sources for live data and historical events
- The connection can use an explicit 'remoting connection' endpoint on the client.
- The server will license for 'Data Access' and the client will license for the devices, applications, etc.



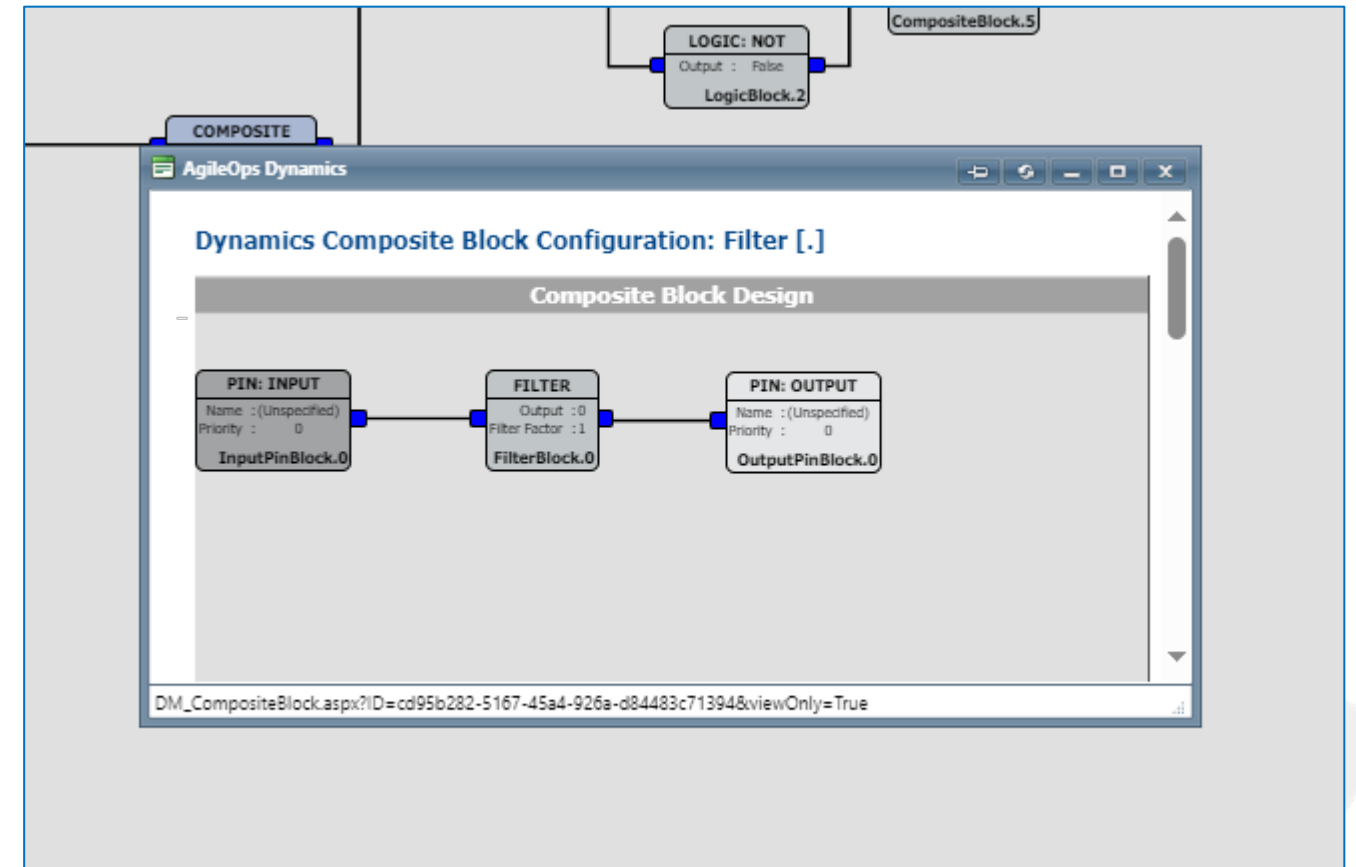
Alarm Shelving Unshelve Task

- Add option to unshelve all alarms on a list at a specific local times, such as shift handovers.
- Define which times of day and lists
- Action Types
 - Unshelve alarms
 - Delete from list



Composite Blocks

- Allow users to define a user defined block template that is a combination of standard blocks and wires that can be saved and can be edited to allow users to change logic in one place and apply it to multiple workspaces.
- Simplify configuration and maintenance as well as increase speed of building logic.
- Composite block templates can be created and used in Dynamics and Safety Integrity.



What's Coming in DeltaV AgileOps

- Process health reporting (State Analytics)
- Operational Limits Analog Tracking
- Alarm Shelving Trigger Shelving
- Dynamics one shot writes
- Database aggregated view
- Connections (Edge, SaaS SCADA, PK, D3, UA Server)
- Performance Analytics updates and multilingual (Chinese) support
- Ovation connection and reporting enhancements
- AI to suggest alarm help content
- AI to generate alarm setting suggestions

Enterprise Operations Platform

VISION

Optimization
Software



Control
Systems &
Software



INDUSTRIAL
DATA FABRIC

Intelligent
Field

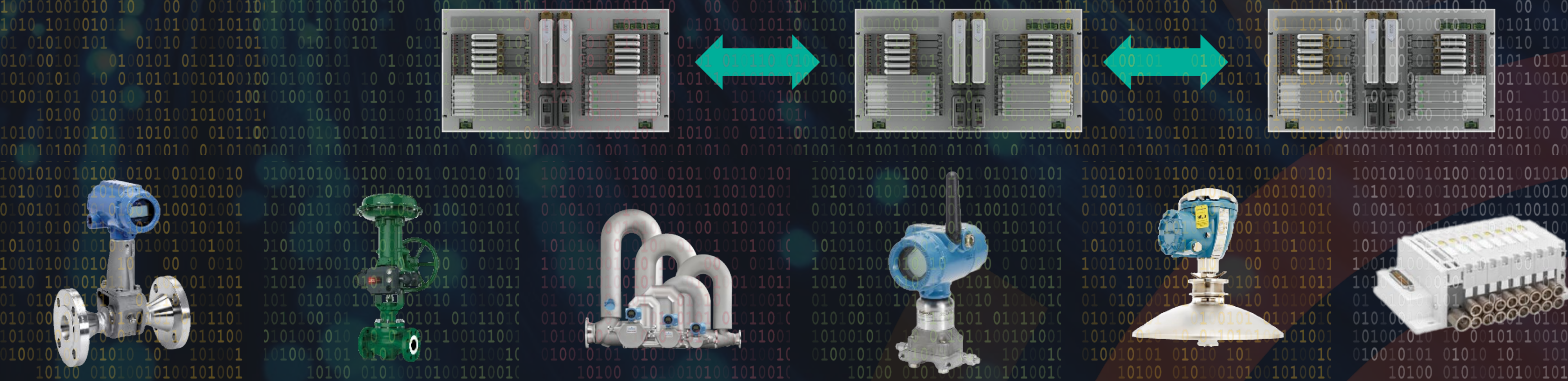


Exhibit #239 DeltaV AgileOps

Find More Information

www.Emerson.com/DeltaVAgileOps

Contacts

David.Solberg@Emerson.com
Alexander.Parker@Emerson.com



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Thank You