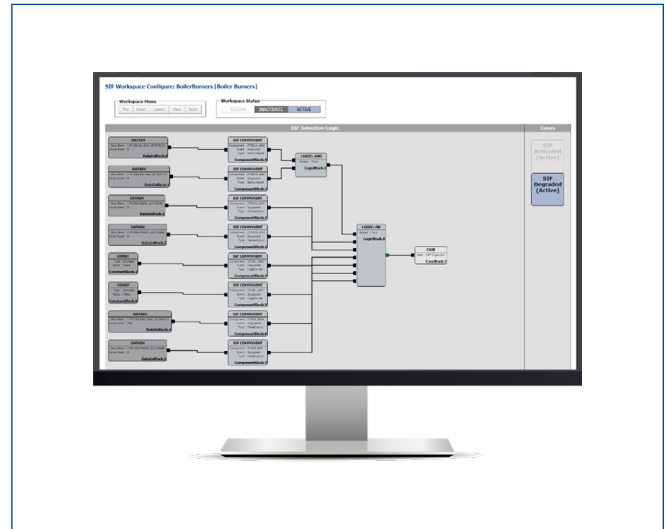


# DeltaV™ AgileOps Safety Integrity

- Monitor the integrity of your safety system automatically
- Easily identify and resolve degraded components before the operation of the Safety Instrumented Function (SIF) is compromised
- Automatic bypass monitoring
- Track SIF activations and automatically report demand rates
- Replace manual processes for data capture and metric processing
- Compatible safety system health and metrics with multiple safety system platforms



AgileOps Safety Integrity Workspace.

## Introduction

DeltaV™ AgileOps Safety Integrity monitors the performance of a safety system to determine if that system is operating normally, operating in a degraded state, or if a safety function is active. The detection of whether a safety system is in a degraded state or if a safety function is active are defined as “cases”. Each case contains selection logic built by the user to define what constitutes an activation trigger of the safety system or a degraded operating mode as well as individual contributors to an overall degraded mode of operation (such as active bypasses or bad inputs from field instruments). The results of this monitoring can then be viewed by users in reports presented in AgileOps Performance Analytics.

AgileOps is compliant with ISA 18.2, EEMUA 191, IEC 62682, API RP 1167, 49CFR192.631 and 49CFR195.446 standards.

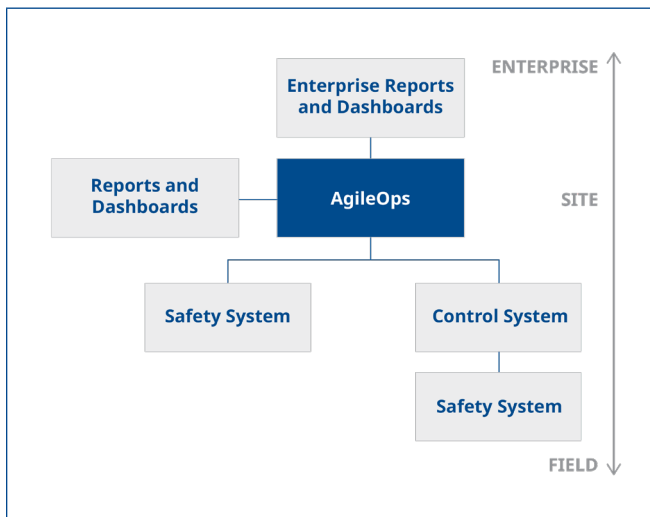
## Benefits

- **Track the Integrity of Safety Systems at Your Facility** – Easily identify any safety system in a degraded state and resolve issues before the operation becomes unsafe. AgileOps allows operators to verify the integrity of the safety systems they are responsible for and, if issues are identified, help prioritize work orders with maintenance to restore the integrity of the safety system. Operations can also verify that bypasses are cleared so that those safety systems can perform safely.
- **Easily Review Activations and Degradations** – When reviewing safety systems, engineers can use Activations (the historical demand rates) and Degradations (the reported times when the system was not at optimal safe operation) to determine if design changes are needed to provide an appropriate layer of protection to the system.
- **Monitor SIF Health** – Operators can monitor all safety functions via workspaces, reports and records to easily identify issues in individual components of a safety function or at a macro level and ensure that safety functions are not impaired in any way.

- Concurrently Monitor Software on Multiple Control Systems** – In addition to DeltaV, AgileOps is compatible with many control systems including Ovation™, OpenEnterprise™, Honeywell Experion® and TDC®, Siemens PCS7® and APACS, ABB 800xA, ABB Advant, DOW's MOD 5, Schneider Foxboro®, TIS/OMM, ClearSCADA/GeoSCADA, and Yokogawa Centum VP, thus delivering a complete solution for an entire site with one or multiple control system manufacturers. AgileOps also offers a generic connector for other systems not listed.

## Product Description

AgileOps Safety Integrity monitors the overall health and individual components within each SIF. AgileOps Safety Integrity can be utilized by multiple users with different levels of responsibility such as operators, supervisors, and engineers. Each type of user can have specific authorized privileges assigned. Based on authorization, users can view the state of the safety system, view the performance over time, or manipulate the logic to determine degraded or active operation by editing and loading workspaces. The logic can be built directly in the web interface or imported from Visio. Existing workspace logic can be exported to Visio or directly printed to PDF.

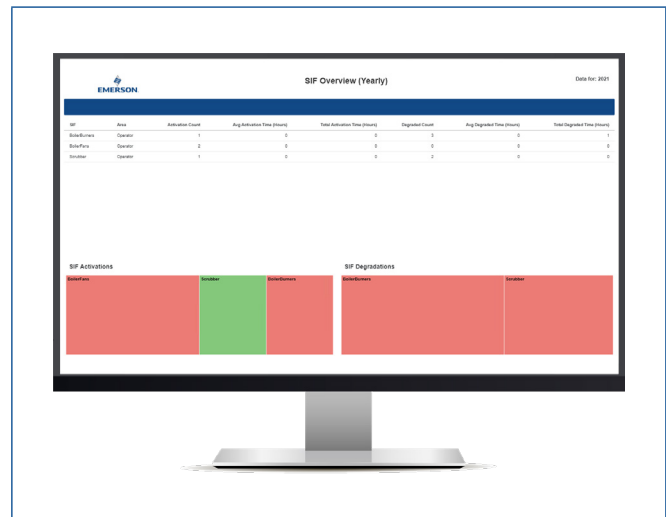


AgileOps General Architecture.

## Reports

AgileOps Safety Integrity automatically records events and generates metrics based on the logic built by the user which replaces the need for custom data collection. Reports are available in AgileOps Performance Analytics, which can be on the same server or run separately on a second server if reports need to be presented to users in another domain or network. These reports include information on individual events, components, and overall health of the system. Metrics can be analyzed by the weekly, monthly or on a yearly basis.

- The Overview report (shown below) displays the list names, counts, and duration of list item activations.
- The Components report is a drilldown into details for an individual list and the split of counts for each Bypass, Interlock or general Input activation.
- The Events Records report is a drilldown that shows all raw data collected by the list but also allows removal of events in the metrics if the user desires. (Any removal is tracked in the database and explanation is required in the removal process).



AgileOps Safety Integrity Overview Report.

## Product Support

AgileOps Product Support is delivered through Guardian™. Guardian is Emerson's digital platform for addressing the end-to-end lifecycle needs of automation & control software and asset performance management solutions. The Guardian digital experience enables users to quickly connect to product support; securely manage subscriptions; get intuitive views into system health; and explore additional software and services that propel performance.

## Requirements

- Hardware Requirements
  - 2.20 GHz 8 Core Processors
  - 64 GB RAM
  - 512 GB Hard Drive
- Software Requirements
  - Microsoft SQL Server 2016, 2019, or 2022 with Microsoft Server OS 2016, 2019 or 2022
- Web browser (Microsoft Edge or Chrome)
- Licensing for AgileOps Database
- Licensing for 1 AgileOps Performance Analytics User

## Ordering Information

DeltaV AgileOps is licensed on a Flexible Subscription Unit (FSU) basis. An FSU is a currency that can be used to access any AgileOps feature licensed on an FSU basis, with each feature requiring its own number of FSUs. The FSU subscription is offered in one-year, three-year, and five-year terms. To purchase, extend, or expand a license, please contact your Emerson Sales Representative.

## Related Products

- DeltaV
- DeltaV AgileOps Alarm Shelving
- DeltaV AgileOps Database
- DeltaV AgileOps Dynamics
- DeltaV AgileOps Operational Limits
- DeltaV AgileOps Performance Analytics
- DeltaV AgileOps Safety Integrity

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