

Site Evaluation Service

- Informed and better decision making.
- Reduced unexpected hardware obsolescence.
- Lower operating costs for the system.
- Improve safety, security and asset reliability.



Achieve and Sustain Peak Operational Performance and Reliability from Control Systems Assets.

Introduction

Emerson Lifecycle Services has developed an innovative, proactive evaluation process for customers wanting to achieve the maximum operational performance and reliability from their DeltaV™ distributed control system (DCS).

The Site Evaluation Service will enable customers to assess the configuration state and performance of the main elements of their system against Emerson's best practices, determining areas for improved performance and highlighting potential issues to process performance and uptime.

The Control System Site Evaluation Service is available for the DeltaV digital automation system. This assesses the site across several dimensions and provides a quantitative measure of performance covering:

- Health of installed hardware and software.
- Product lifecycle and continued serviceability status
- Backup and restore activities
- Status of cyber protection for best performance
- Performance of alarms against best practice

Control System Site Evaluation Service uses a three step process including initial field service consultation and data collection, analysis, report generation and presentation, discussion of findings with the customer.

The Service includes these deliverables:

- Detailed site report, with presentation and discussion of the findings to the site team.
- Support to deliver the report to management, including a consultative presentation, providing rationale for releasing funds for remedial and improvement activities.

Benefits

Informed and better decision making: Site Evaluation service helps to understand the issues related to system availability and reliability, security and performance. The understanding of these issues will form the basis to make informed and better business decisions.

Reduced unexpected hardware obsolescence: Through the assessment of the system lifecycle and health, Site Evaluation Service will provide a diagnostic of the current system's state using best practice methods in order to determine the required improvements needed to avoid risk of potential system failures due to hardware obsolescence.

Lower operating expense costs for the system: A direct result of the preventive approach of Site Evaluation Service that can typically be seen is the 5% reduction of corrective maintenance effort & cost and 5% to 10% lifecycle planning cost decrease.

Better operating performance – no surprises: Customers require that process and assets must run at peak performance and to keep their plants running profitably and without unexpected incidents. Customers can have control systems that continue to operate but possibly face issues in the future without anyone being aware and addressing them. Site Evaluation Service will give customers an objective criterion to take actions before failures can arise.

Improve safety, security and asset reliability: Unaddressed hardware and software maintenance, systems configuration and operations changes, legacy or aging systems, hardware/software compatibility, anti-virus and security updates can all have an effect on control system performance possibly resulting in disruptive events and downtime. For Control Systems Site Evaluation Service the system data is being proactively analyzed and compared to Emerson current support recommendations, and benchmark standards. The objective is to proactively identify and fix shortcomings that can impact system continuity and availability.

Service Description

The service uses a three step process including initial field service consultation and data collection, analysis and report generation, then presentation and discussion of findings with the customer.

1. Initial field service consultation and data collection. This is performed during a Customer site visit by an Emerson field service specialist. Scope of work includes non-invasive data gathering with Emerson systems tools, a Q&A session and health checks.

2. Analysis and report generation. Site visit data is transferred to Emerson Services Specialists Team. Data is analyzed, compared to Emerson current support recommendations, and benchmark standards. A Site Evaluation Report is prepared including – Evaluation scope, findings, KPI ratings, Explanations, Findings, and Priority. Recommendations.

3. Discussion of findings with the customer. The Evaluation Report is presented back to the site. Customer receives a hard and soft copy of the detailed report. Customer and the local Emerson services team discuss the findings and develop an Action plan, Timeline and Responsibilities.

We identify and understand issues using performance and best practice methods. Knowledge is gained, and improvements can be planned.

- Control hardware lifecycle status, compatibility and performance
- Control software lifecycle status, performance.
- Updates and product hot-fixes installed.
- Integrity of Active and Standby controllers.
- Hardware releases against supported status,
- Primary and secondary communications.
- Cabinets and enclosures conditions.
- Protection of the hardware and software from potential cyber-attacks and virus penetration.
- Server, Workstations – Integrity, Antivirus updates, Microsoft OS security updates.
- Spares strategy, inventory, and verification
- Data protection strategy. Backup and restore functionality and status Actual alarm system performance and benchmarking to ISA 18.2 recommendations.

Site Evaluation Report

There are five dimensions of the Evaluation:

1. Lifecycle status and overall system health
2. Cybersecurity management
3. Spare Parts Management
4. Data Protection
5. Alarm Management

The report with analysis of each dimension covers:

- System ID and Location specifics.
- Results of evaluation and interpretation.
- Heat map to focus attention.
- Overall system composite score (out of 10).
- Dimension score (out of 10).
- Issues at current rating for each dimension.
- Specific recommendations to address each issue

Service Availability

- Control System Site Evaluation Service is a Lifecycle Services offering for Emerson Process Management DeltaV (DCS). The Lifecycle Care services portfolio consists of service modules, each designed to address specific support requirements. These modules can be combined to customize a support program for your plant that is tailored to fit just right, meeting your support needs while providing value and peace of mind.

Ordering Information

- Contact your local Emerson sales

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