

Loop Service Express

- Maximize control utilization.
- Gain new insight from embedded process learning.
- Improve product quality.
- Generate reports to track control performance.
- On the job training.
- Alarm analysis.

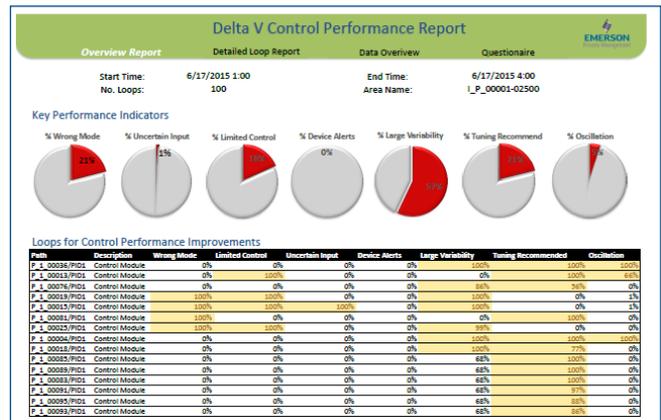


Introduction

The capabilities of your control system, sensors and final control elements have grown dramatically. It's hard to keep up with the new and existing features built in to your system, and loops that were once tuned perfectly may have deteriorated over time. But you can increase performance by using your investment in process control to its full extent.

Loop Service Express offers a mix of onsite and offsite consultation, data collection, analysis and basic loop tuning at a fixed price. This mix will be tailored to your specific need.

For example, if you already own DeltaV InSight, you might want to bring new plant personnel up to speed or refresh their knowledge of using the integrated process control tools. If you don't have a license for InSight, factory certified experts can perform all tasks using a temporary InSight license that will remain active for 90 days.



At the conclusion of the engagement, you will receive a report detailing how your plant performance has been improved and pinpointing potential areas for further improvements.

Benefits

Maximize control utilization: The utilization part of this study is targeted at maximizing return on your control system and instrumentation investment. Loops and equipment that are not optimally contributing to control goals will be identified. The top 10 opportunities for utilization improvement will be discussed in the report.

Gain new insight from embedded process learning: DeltaV InSight can calculate process models based on process changes made by the operator or automated procedures, such as batch control sequences. These process models are stored in a database to evaluate performance over time and to identify potential process non-linearities and degradations, such as the fouling of catalysts, heat transfer surfaces and sensors. Loop Service Express will enable this functionality and utilize the models to evaluate control performance and identify opportunities for tuning or control configuration changes, such as adaptive control.

Improve product quality: The resulting reduction in process variability will help minimize valve wear, consumption of raw materials and energy while yielding product quality improvements.

Generate reports to track control performance: After the onsite and offsite work is completed, a report will offer details on the findings, document improvements and suggest other remedies. Follow-up remedies could include loop tuning, valve calibration, repair or replacement. Multiple control performance engagements will produce multiple control performance reports, which allow you to track improvements over time and calculate your overall return on investment.

If applicable, you will also be presented with specific process control improvement suggestions using the integrated DeltaV advanced control tools, as well as estimates of potential benefits to your production.

On the job training: Trained specialists use integrated DeltaV™ distributed control system (DCS) tools, such as InSight, Analyze, and EnTech Toolkit. If desired, experts can perform the use of these tools together with your plant personnel in order to provide hands-on training with knowledge transfer for longer lasting benefits.

Alarm analysis: Control performance issues can be a contributor to nuisance alarms, and alarms can be an indication of control performance issues such as high variability. Emerson experts will analyze your alarm database, and the resulting report will include an overall alarm performance summary that is measured on 13 KPIs of the ISA 18.2 standard.

Service Description

The Loop Services Express two-step process includes data collection and analyses, followed by a comprehensive report that will provide a closer look at the key loops requiring attention.

With the help of process personnel, the field service engineer will enable the plant area to collect data that can be further analyzed and identify key process loops. The data is transferred by the field service engineer to Emerson specialists for further analysis using various software tools and process simulation.

The second step involves the creation of a plant performance report, which outlines a remediation plan for the process loops requiring attention.

Some loops may benefit from advanced process control methodologies. Such opportunities will also be identified in the report and suitable APC methodologies will be presented.

Control Performance Report

The report outlines the following main areas of findings:

- Control utilization improvements.
- Control performance improvements.
- Hardware issues, including valve changes or repairs.
- Potential areas for additional improvements.

Service Availability

The Lifecycle Services portfolio includes a variety of services, each designed to address specific support requirements. These services, including Scheduled System Maintenance for DeltaV DCS, can be combined with Loop Services Express to create a customized 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

Description	Model Number
Loop Service Express (Includes 90 day temporary InSight License)	VE9142S01
Offsite Consultation and Report Generation (Onsite work to be performed by local personnel)	VE9142S02
90 day temporary InSight License (Required for this service unless system already has InSight Professional license)	VE9137

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