Triconex SIF Manager
Safety loop management solution

Streamline and strengthen your plant safety processes with SIF Manager™, the new safety loop management solution from Triconex. It’s the first and only automated solution for tracking and validating safety instrumented function (SIF) performance over the life of the plant, flagging any need for corrective action and documenting the entire process via an embedded SIF audit trail. So you achieve compliance, improve productivity and help ensure safe plant performance.

Best practice safety standards such as IEC 61508/61511 and ISA 84.01 require plant operators to validate safety loop performance periodically against original design criteria. Operators are required to show evidence of this validation in order to demonstrate compliance to the standards and ensure that safety integrity of the plant does not degrade over time.

This monitoring and validation process, however, can present procedural and logistical challenges that can often strain the operators’ resources and technology base. Addressing the problem using ad hoc procedures and manual handling introduces human errors, inaccuracies and delays, which can expose the plant to significant risks.

The Triconex SIF Manager safety loop management solution addresses these challenges using advanced technology to eliminate complicated data handling logistics and manual handling. It operates in the background, constantly monitoring real-time SIF performance and validating it against original design criteria. The system automatically flags any degradation in SIF safety performance, alarms the need for corrective action, delivers consolidated dashboards for SIF KPIs, which are jointly defined with the clients and provides a complete audit trail for every SIF under management.

OFFERING AT A GLANCE

- Offers unique, automated, off-the-shelf safety loop management solution
- Protects against hidden process threats that can develop over plant lifetime
- Monitors, analyzes, alerts and archives key safety performance indicators (KPIs)
- Available for installations worldwide
- Won’t interrupt plant operations
- Typically delivers ROI of less than 1 year
- Ensures safety integrity is maintained over entire plant lifetime

Triconex
by Schneider Electric
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This effective and affordable package can be applied to any size installation, from a few dozen SIF’s in a single SIS, to thousands of SIF’s across the entire site. Powerful networking and global database structure mean SIF Manager can be expanded as your operation grows or can be deployed across your entire enterprise from day one.

System Description
The Triconex SIF Manager safety loop management solution can connect to your existing Triconex safety system network, or to an off-line historian database containing historized SIF data. The system automates the capture of each SIF’s KPIs which are jointly defined with the client e.g., SIF demand rate, SIF bypass status, SIF shutdown verification and more. Background system monitoring occurs 24/7, automatically. As your plant evolves over time, the way you run the plant may change, your processes may change, even your maintenance and operation procedures may change; the Triconex SIF Manager system continues to reconcile actual SIF performance against design targets, delivering automated analysis, display and alarming of discrepancies. Its configurable dashboards and reporting structure can also advise about upcoming proof testing, capture critical function test data to allow you to extend proof test intervals, and quickly pinpoint problematic or underperforming safety functions.

The Triconex SIF Manager system can be linked to digital workflows, and automatically documents every aspect of the SIF under management, archiving everything in a clear audit trail for full compliance. Information is displayed onsite, or on the Web via a secure link.

System Advantages
• Delivers huge return on investment when it prevents even one unplanned trip or safety incident
• Arms plant personnel with relevant information automatically — while freeing them for core activities
• Allows the plant team to assess risk and manage safety over the life of the plant
• Accommodates growth with changes, expansions or additions
• Provides for less downtime, fewer incidents and a more smoothly running plant

Keep safety and profitability in sync. Let Triconex process safety show you how!

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