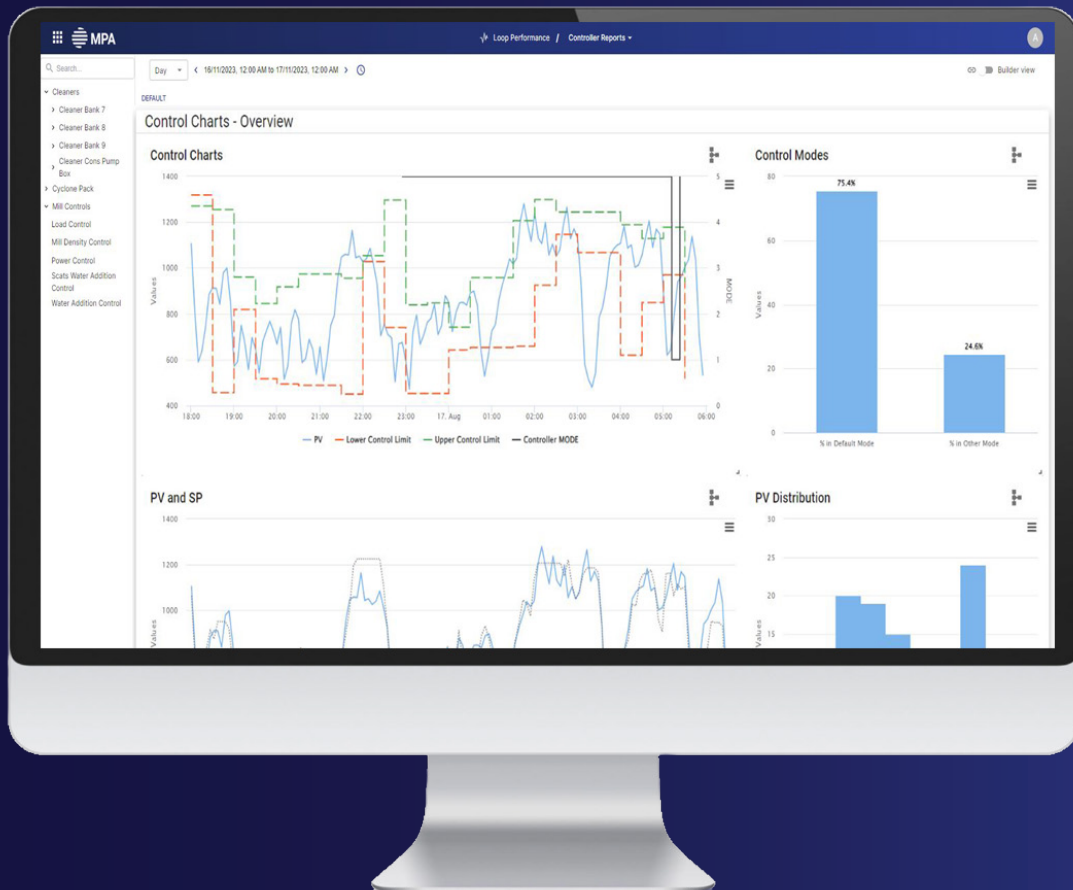




Loop Performance

Increase Production through Operational Insight and Foresight

November 2023



About Loop Performance

The MPA Loop Performance application, part of the MPA suite of applications, is purpose-built to navigate the complexities and challenges of managing control loops in complex processing operations. This application is dedicated to enhancing plant stability, operational safety, and efficiency, making it an essential tool in modern process control environments.

Central to its capabilities is the measurement of control loop health and performance across the operation, enabling timely identification and resolution of issues. By enabling teams to optimise the most important control loops, the application plays a crucial role in maintaining and improving plant stability and contributes significantly to the overall reliability of the operation.

The Loop Performance application empowers operations to stay ahead of potential problems, ensuring a seamless, safe and efficient processing environment.



Features and benefits



Loop Health and Performance Reporting

Real-time monitoring of control loop health and performance across the entire operation is provided, identifying issues as they arise. This feature ensures standardisation and consistency in loop management practices and reporting.



Master Control Loop Database

A central repository for all control loop information streamlines the tracking and management of changes to tuning parameters and other adjustments over time.



Detailed Control Loop Analytics

Offering detailed reports and analytics, the application enhances decision-making and operational strategies with deep insights into loop performance.



Integration with Existing Control Systems

The Loop Performance application seamlessly integrates with AVEVA PI AF, a commonly used historian in industrial processes, ensuring compatibility and smooth implementation without major disruptions.



Detect and Alert

Relevant personnel receive immediate notifications of any deviations or anomalies in control loop performance, ensuring quick response to potential issues and preventing escalation.



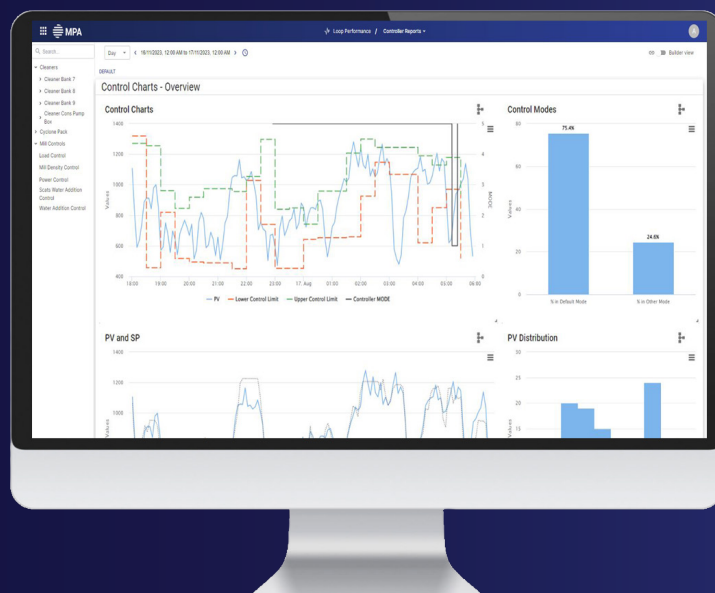
User-Friendly Interface

With its intuitive and easy-to-navigate interface, MPA is accessible to teams of all skill levels, simplifying the user experience.



Team Collaboration

The Loop Performance application allows teams to collaborate through annotations and comments.





Why choose Loop Performance?



Minimise Unplanned Downtime

By continuously monitoring control loops and identifying issues before they escalate, teams can proactively maintain equipment.

This preemptive approach minimises equipment failures and process disruptions, keeping operations running smoothly and efficiently.



Increase Production

By maintaining optimal loop functioning, teams can achieve higher throughput and reduce underperformance.

This leads to maximised production capacity and better utilisation of plant resources, positively impacting the bottom line.



Reduced Plant Variability

The Loop Performance application is instrumental in decreasing process variability, a key factor in maintaining consistent product quality and operational stability.

By optimising control loop performance, teams ensure that operational parameters remain within desired limits, leading to more predictable and stable plant operations.

This stability is crucial for meeting production targets and maintaining high-quality standards.



Seamless Integration

The Loop Performance application integrates seamlessly with your existing systems (such as AVEVA PI AF), ensuring smooth data flow, reducing duplication, and increasing overall efficiency.

We believe data should be retained at its source.



Supports Engineers

The application supports control engineers and technicians of all experience levels by minimising manual reporting and offering targeted guidance and recommendations on prioritising loops for investigation.



Why choose Loop Performance?



Increased Collaboration and Communication

The Loop Performance application promotes collaboration among plant personnel by providing a standardised platform for control loop management.

It facilitates communication between operators, engineers, and management, enabling effective coordination and decision-making to address issues promptly and efficiently.



Improved Decision-Making

The application empowers decision-makers with data-driven insights.

Advanced analytics and reporting capabilities provide a comprehensive understanding of control loop performance, enabling informed strategic decisions.

This clarity and depth of information facilitate effective planning, resource allocation, and operational adjustments, driving overall operational excellence.

By equipping organisations with these advanced capabilities, the MPA Loop Performance Application plays a crucial role in optimising control loop management. It not only enhances operational safety and reduces equipment failures but also drives overall efficiency and compliance, leading to sustainable improvements in industrial processes.

Did you know?

Loop Performance

FAQs

Where is Loop Performance information stored?

The Loop Performance application integrates with your control system through AVEVA PI AF, ensuring investments in existing infrastructure are leveraged. We will establish a new master control loop database (where required) which can be stored locally to the MPA server or in an existing SQL Server.

What's included with the Loop Performance application?

The Loop Performance application, part of the MPA suite of applications, offers a comprehensive solution for effective control loop management in industrial processes. In addition to the features listed above, the application allows unlimited users, tags, control loops, and areas within an asset.

What support is provided?

We understand that different customers have different support needs, which is why we offer two levels of support. Our standard support package is designed for customers who need basic support, while our premium support package is ideal for customers with more complex needs or customised solutions.

Standard support provides access to our knowledgeable support team for assistance with any software-related issues you may encounter. Standard support covers typical software application issues such as bugs and incidents. Standard support will be available during normal Brisbane business hours.

Premium support offers access to expertise for complex issues that may require specialised knowledge supporting application or infrastructure problems. Premium support can be tailored to the size and complexity of the installed system and the desired response timeframes. Premium support also provides access to application specialists for minor additions or improvements.

How long does it take to implement?

Our solutions can be implemented in as little as two weeks.

The implementation timeframe of our solutions can vary depending on several factors such as whether there is existing infrastructure in place and if you require any site-specific reports. If an out-the-box Loop Performance application is required, connecting to a few critical loops the implementation can take anywhere from two to four weeks once the base system is set up. Our solutions can be implemented within this time frame, but it's important to note that the exact duration will depend on the specific requirements of each project.

How easy is it for the user to modify the Application?

Mipac has a capability transfer philosophy. MPA utilises templates making it simple to extend and evolve your system as changes or new requirements are introduced.

What is required to get Loop Performance up and running?

If you don't already have an MPA Server installed, we would require a virtual or physical server, ideally with Windows Server 2019. We would require administrator access to the server to install the pre-requisite software and configure MPA for connection to your plant data.

You will require an AVEVA PI historian with a PI AF (Asset Framework) server. If you don't have AF setup yet, Mipac can assist with this too. In order for MPA to connect to AVEVA PI, you require the PSA (PI System Access) licence. Mipac can support you with obtaining the licence, or you can liaise directly with your AVEVA account manager.

Working with your IT group, Mipac would also require a service account to access the PI Data Archive and PI AF Server.

- ✓ Advanced Process Control
- ✓ Industrial Automation
- ✓ Industrial Software Solutions
- ✓ Data Visualisation and Analytics
- ✓ Electrical and Instrumentation
- ✓ Process Optimisation
- ✓ Cybersecurity
- ✓ Operations Support and Procurement
- ✓ Industry 4.0 Consulting

About Mipac

Built by miners for miners. Global leaders in operational technology, control systems and engineering services, Mipac is the perfect partner in driving your operational performance.

From control systems with robust software and engineering foundations to the latest innovative advancements in digital technology, Mipac delivers high-quality, intelligent solutions to drive performance.

We understand the complex challenges operations face through our depth of onsite experience and have developed a reputation for solving complex problems.

Operating globally, we provide an extensive range of services to realise the total value of your mining operation and have developed a suite of products that will help you increase productivity, reduce costs and optimise operational performance.

From solid software and engineering foundations to the latest innovative advancements in digital technology, Mipac is your trusted advisor for all aspects of your mining operation.

Our solutions

We work across various industries to realise the total value of your operation and recommend solutions and services that produce optimal outcomes and increased performance.



Building new operations



Operating and optimising existing operations



Modernising existing operations



Main Automation Contractor



We believe in working together with our clients and partners to achieve their goals.

At Mipac, we go

beyond the solution!

With more than

650

projects delivered worldwide

over the past

3

decades, we've worked in

more than

50

countries around the globe

for more than

100

clients across the globe

with a team of

120

experts dedicated to projects like yours.

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