



# MPA

Software suite for  
optimising mineral  
processing operations

September 2024



# About MPA

MPA is Mipac's suite of integrated applications designed to:

- **Visualise** plant processes live
- **Detect** production deviations early
- **Respond** accurately to issues
- **Save** time with reporting

Empower your frontline team with the MPA software suite for live visualisation of plant processes and timely management of production deviations

## Discover how MPA's suite of applications integrate with your plant



# Features and benefits



Visibility into every area of your processing plant on a single screen



Maximise investment in other systems



Knowledge retention reduces employee churn risk



Enable collaboration between groups



Eliminate data and system silos



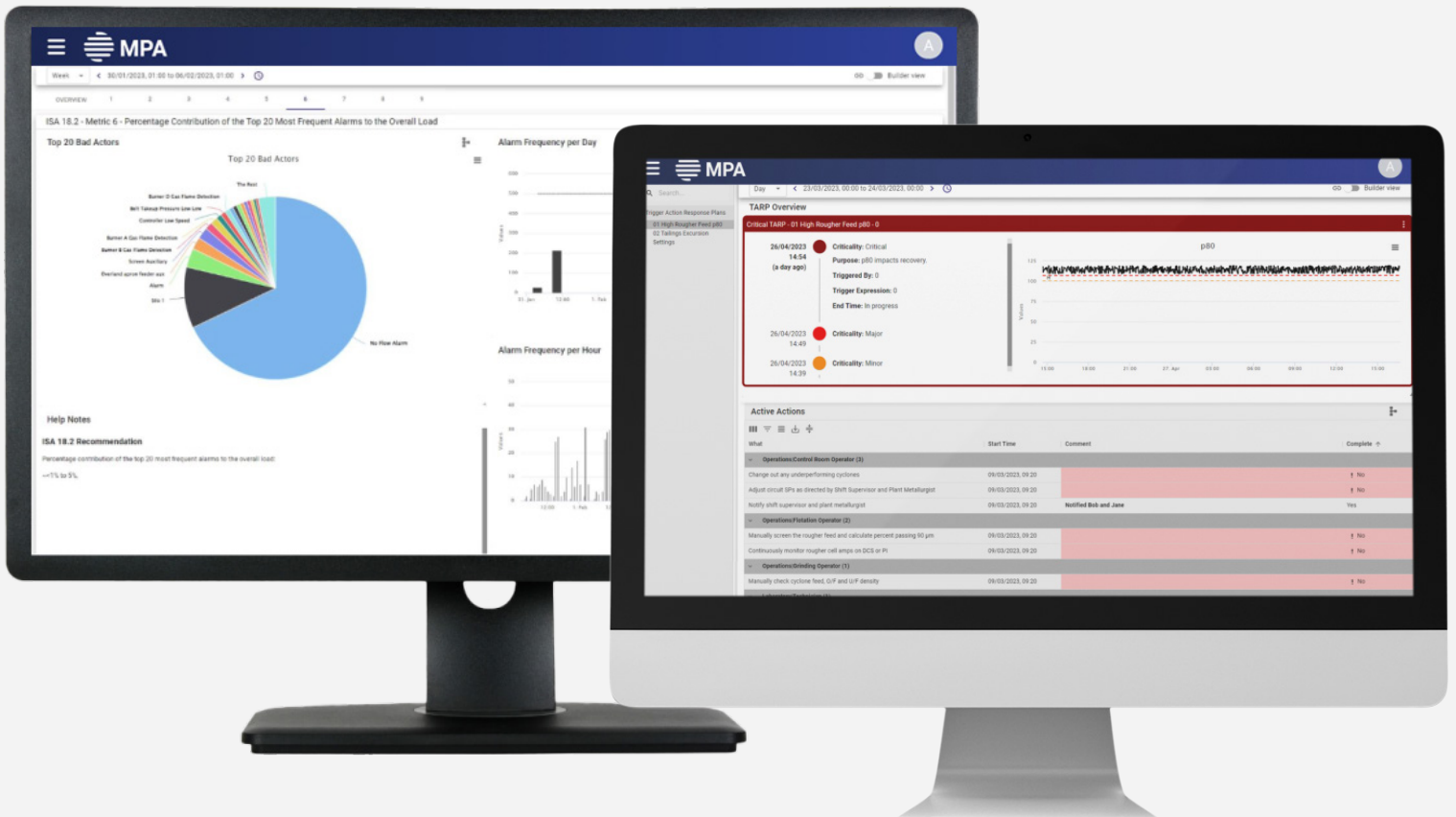
Track and report production KPIs such as budget vs actual



Seamless integration with legacy systems



Trusted support and security



Designed as a comprehensive solution, MPA provides operational insight and intervention for complex processes through a suite of integrated applications.

With MPA, you can increase production, reduce variability and deliver operational excellence.

MPA's suite of applications includes:



### Golden State

- Define and visualise key performance drivers
- Identify when unit operations are operating outside control limits
- Illuminate bad actors to rapidly address production deviations



### Digital TARP

- Streamline corrective actions by having a clear and concise plan for anticipated events
- Minimise risk by ensuring corrective action aligns with agreed best approach
- Optimise decision-making by identifying long-term improvement projects by comparing historical events



### Production Reporting

- Dynamically visualise and analyse your plant over adjustable timeframes
- Enable your team with integrated and pre-populated production reports pulled from multiple data sources
- Track production KPIs such as budget vs actual



### Production Monitor

- Detect and manage underperformance as soon as or before it happens, whilst alerting relevant stakeholders
- Identify under-performance by comparing actual against theoretical model/best practice in real-time
- Identify critical bottlenecks to maximise value of technical staff



## Logsheets

- Digitally capture operator observations and actions, reducing duplication and sharing real-time insights across departments
- Understanding long-term instrument accuracy and drift by overlaying instrumented data over manual checks
- Automate inventory calculations to reduce errors and increase efficiency



## Asset Health

- Prevent looming downtime events and process inefficiencies by notifying the right people to take meaningful action
- Identify, assess and address at-risk assets and processes
- Maintain peak operational health, maximise asset longevity and prevent costly downtime through predictive analytics



## Loop Performance

- Measure control loop health and performance across the entire operation
- Optimise control loops to improve plant stability
- Detect deviations early to support proactive maintenance or calibration of equipment



## Alarm Manager

- Monitor, manage and optimise control system alarms to recommended standard





## Why choose MPA?

### **People & Resource Management**

MPA suite's collaborative environment enables team members to communicate, escalate and address issues in real time, reducing misunderstandings and enabling better decision making.

### **Knowledge Retention**

By serving as a single source of truth for production data, MPA helps retain critical operational insights across rosters. MPA applications support knowledge retention and transfer, accelerating the effectiveness of new team members.

### **Eliminate Data & System Silos**

Our applications are designed not just to stand alone, but to integrate with one another, providing a unified, holistic operational solution. This cross-application interaction optimises data flow, reduces process silos and enhances the efficiency and consistency of decision-making across the board.

### **Seamless Integration**

We believe data should be retained at its source. That's why MPA's applications can easily integrate with existing systems (such as AVEVA PI AF), ensuring smooth data flow, reducing duplication and increasing overall efficiency.

### **Maximise Investment In Other Systems**

MPA complements your other systems through integration of data, meaning your investment in existing systems is maximised.



## Why choose MPA?

### Collaboration

MPA facilitates better communication and collaboration among team members by providing a shared view of operational data, thereby aligning efforts towards common goals.

### Data Utilisation

The ability to visualise, compare, and analyse key performance indicators across MPA applications enhances decision-making capabilities. Moreover, the early detection of operational issues and under performance helps automate corrective actions, reducing the time to resolution.

### Trusted Support

The MPA suite is supported by Mipac, a global leader in operational technology with over 27 years experience. When you deploy MPA applications you gain access to our engineers with years of operational experience and a team that delivers operational excellence applications to the industry.

### Scalable

Our applications are designed to grow with your business needs. Teams can start small and add new applications or extend use to other plant areas in line with your technology and business improvement roadmaps.





**NORTHERN STAR**  
RESOURCES LIMITED

“Northern Star Resources Pogo worked with Mipac at Pogo on the digitisation of the operator logsheets into the MPA system and are extremely pleased with the results.

Mipac went above and beyond to accommodate specific feature requests that were not yet included into MPA and were very helpful in putting the vision of the logsheets to paper.

# What our clients say

Mipac’s quick responses and attention to detail have made the roll-out seamless, saving time for operations and the met team on a daily basis, while also allowing for the plant data to now be live monitored by the team.

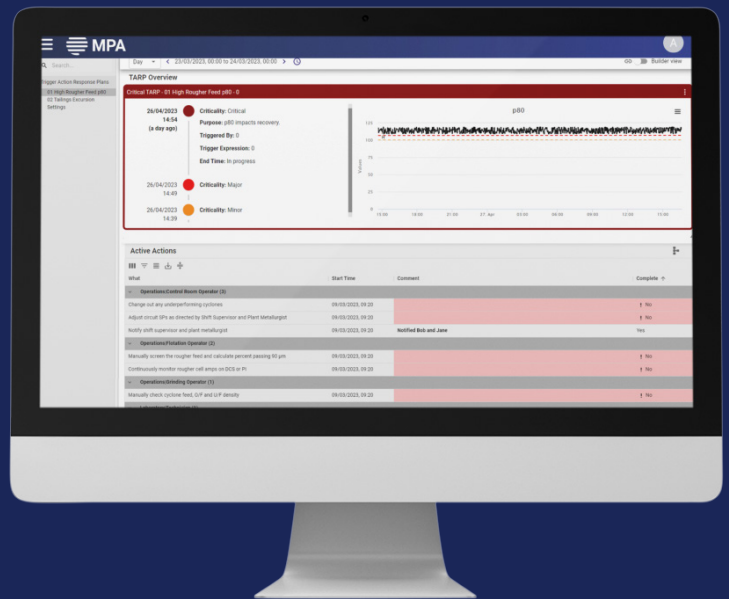
**The benefits from MPA were realised immediately.”**

**Mark Pliska**  
Processing Manager  
Northern Star Resources,  
Pogo Operations, Alaska

“I tried to calculate the benefit based on percent improvement in time savings, but it is not possible to **divide by zero!**

With MPA Digital Logsheets, we no longer spend ANY time maintaining our Logsheet system.”

**James Sweeney**  
Project Metallurgist,  
Northern Star Resources,  
Pogo Operations, Alaska





- ✓ 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



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

**At Mipac we go**  
*beyond the solution*

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With more than

**730**

projects delivered worldwide

over the past

**3**

decades, we've worked in

more than

**55**

countries around the globe

for more than

**110**

clients across the globe

with a team of

**125**

experts dedicated to projects like yours