

# ProcessVision™ Plant Operating Effectiveness

## What is ProcessVision™?

Based on TeamTech's IntelliPlant™ framework, ProcessVision™ provides sophisticated operational performance oversight, exception reporting and action tracking for the process industry.

ProcessVision monitors data from across your operation and analyses it against operating norms, expressed in the form of specifications, control limits, or calculated operating indices.

Excursions are logged and relevant personnel notified on either a scheduled (e.g. shift or day end) or in near real time basis.

## Intuitive Presentation

Excursions are typically presented to the users as reports or intranet portal pages presenting dynamic web based trends, charts and gauges. The trends will show the metric over time with spec and control limits.

Users may drill through to the base data with a click, and trends and data can be readily copied to an email or exported to a spreadsheet for offline analysis.

## Configuration

Each process metric is defined by the system administrator who nominates the source of the measure, the description, derivation, legend, upper & lower control limits, and spec ranges. The administrator also nominates where the measure is to appear (i.e. which reports or portal pages), the intervals to be reported on, the exception window, and what role is responsible for the measure.

Once defined, the administrator may inspect the data and trends prior to it being made live.

Any changes to a measure's configuration are recorded with full audit information to ensure traceability over time.

Apart from driving the system's behaviour, this information can be examined by any authorised person via the Data Dictionary.

## Action Tracking

Investigation of excursions may be assigned to personnel or groups for investigation, explanation, and closeout. Reason codes may be assigned, and this can be analysed over the long term to identify major contributors to production loss. This action tracking is optional.

Actions can optionally be propagated to a maintenance management system such as Ellipse or SAP as a Work Request or Work Order.

## Proactive Notification

ProcessVision can deliver reports and action notifications through your email, or optionally, via the notification engine. Personnel are notified of any items relevant to them upon logon to the network, or if already logged on, when an item requiring their action or acknowledgement occurs.

When the acknowledgement or action is completed, the notification is recorded as completed with audit details regarding the action taken, by whom and when. The notification will then not appear for any others in that group.

The advantage of using such a method is that people are not spammed with action notification emails that may accumulate in their inbox if they are away, or that may be actioned by others prior to them getting to action the item.



# ProcessVision™ Plant Operating Effectiveness

## Sustainable Integration Framework

ProcessVision utilises the IntelliPlant framework for enterprise application integration (EAI). IntelliPlant delivers a flexible, sustainable, auditable, and pre-configured integration solution based on Microsoft's EAI standards.

## See it your way

Apart from expressing an exception in its base units (e.g. Deg C for a temperature excursion), ProcessVision operating indicators may also be expressed in terms of a mass loss or opportunity cost. If, for example, process operators chose to run a unit with a depressed feed temperature over an extended period, and this resulted in lower than desired recoveries, the losses caused by this may be displayed as a metal equivalent, or as a financial loss.

This provides a powerful way of expressing losses in a way that is relevant to all the stake holders in the business – operations, management, and finance.

## Case Study

When Minara Resources needed to improve operational visibility, accountability, and auditability in the running of their 38,000 tonne per annum Nickel refinery, they selected TeamTech to provide a solution.

ProcessVision currently monitors 2,000 process conditions, sourcing data from the control system, the lab, the metallurgists, and conditions computed from these sources. Financial measures are planned to be integrated shortly.

Operational personnel are automatically issued summary reports every morning detailing process excursions, which are discussed at the daily 7am ops meeting, and from which tactical changes in the operation of the plant are made.

"Since its implementation 6 months ago, the solution has paid for itself many times over", reports John O'Callaghan, Group Technical manager.

Minara expect to expand this monitoring to 6,000 parameters by year end.

## Planned Enhancements – Profiles

ProcessVision will soon be enhanced to allow operational profiling – if part or all of you plant is expected to be in an unusual operational state (e.g. shutdown) or if the processing characteristics of a particular feed dictate the application of different operational norms, ProcessVision Templates can be applied to override the usual operating parameters.

This ensures that your exception reporting remains relevant and meaningful in all operating conditions.

## About TEAMTECH Australia

*TEAMTECH Australia provides systems development and integration servicing focused on plant, people and process efficiency in the resources sector. TEAMTECH consultants are skilled in integrating data from the underlying process control systems and making it visible and available to the broad range of manufacturing, ERP, EAM and business intelligence applications.*

Our services include:

- Application development*
- Business process rationalisation*
- Financial analysis & modelling*
- Maintenance optimization*
- Mass and energy balancing*
- Metallurgical accounting*
- Mining and mineral processing modelling*
- Process control*
- Supply & inventory optimization*

### Contact TeamTech at:

Gemcom Software  
Tel: +61 8.9420.1333  
Fax: +61 8.9420.1350  
Email: [teamtech@gemcomsoftware.com](mailto:teamtech@gemcomsoftware.com)  
Web: [www.gemcomsoftware.com/teamtech](http://www.gemcomsoftware.com/teamtech)