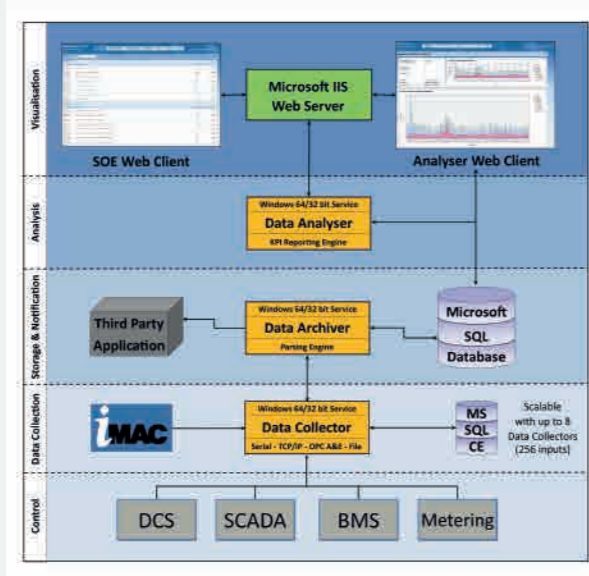


## ▶ ProcessVue SOE

ProcessVue SOE (Sequence of Events) is the foundation of the ProcessVue Alarm Management Suite. ProcessVue SOE is a very flexible Alarm Historian able to collect data from multiple disparate systems and consolidate them into an industry standard SQL database providing a unified view of all your alarm & event data.

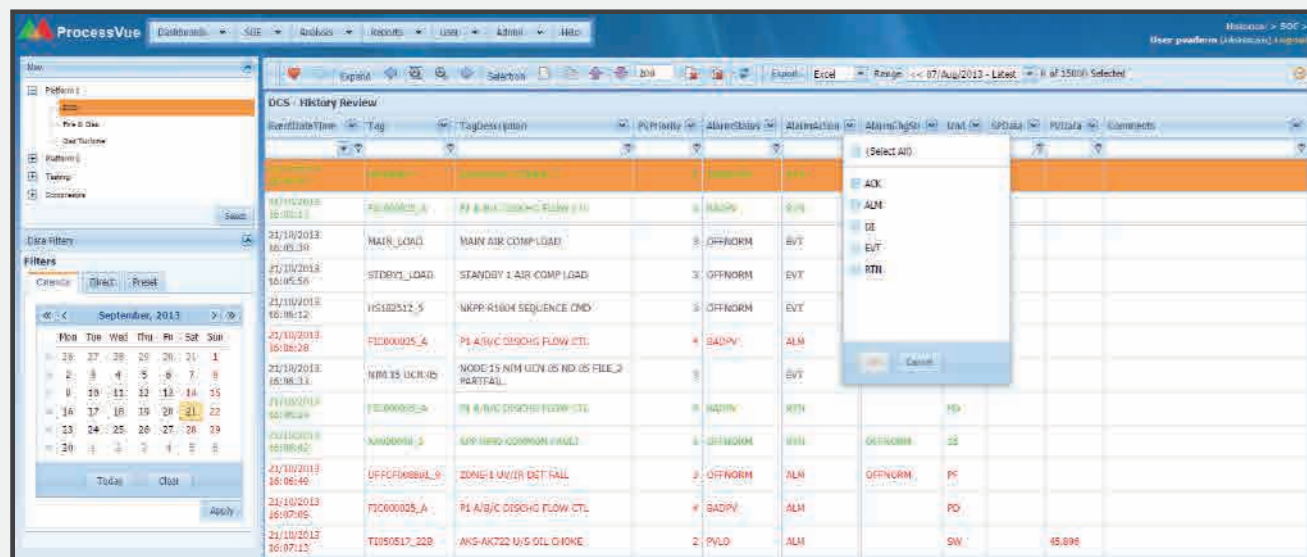
An easy to use, powerful web based client enables users to view, search and filter alarm & event messages. ProcessVue SOE includes the following functionality:

- ✓ Advanced search and filtering on any element of the message.
- ✓ Simple export to formats such as Excel, CSV, RTF & PDF.
- ✓ Data is digitally signed upon receipt ensuring data integrity and authenticity.
- ✓ Look-up table functionality to add missing/extra information.
- ✓ Frequency analysis with distribution drill-down.
- ✓ Automatically export data such as metering and daily reports.
- ✓ Important alarms/events can be sent to other databases through an ODBC interface.



Powerful data handling and parsing functions ensures ProcessVue SOE can connect to most Control, SCADA, ESD, Fire & Gas and Building Management systems from vendors such as Schneider, Honeywell, Emerson, Yokogawa, ABB and Rockwell - to name a few. Support for Alarm Notification systems is also included.

ProcessVue SOE is a drop in substitute for the obsolete IMAC printer replacement software. Utilising modern technologies ProcessVue SOE makes sharing alarm and event data simple and manageable.



## ▶ ProcessVue Analyser

Built on the foundations of the SOE system; ProcessVue Analyser enhances the easy to use Web Client by adding real-time dashboards and a comprehensive set of reports based on industry standards and best practices.

ProcessVue Analyser is a valuable tool in any alarm improvement project enabling rapid identification of Bad Actors & Nuisance Alarms and can even suggest what impact adding delays to individual alarms would have to the Alarm Frequency.

ProcessVue Analyser is used by many industry leading companies enabling them to make informed decisions and take positive action to improve their Alarm Systems. A well managed Alarm System can bring the following benefits:

- ✓ Increased Safety and lower Environmental impacts.
- ✓ Improved Alarm System effectiveness.
- ✓ Improved decision making and reduced Operator stress in abnormal situations.
- ✓ Fewer plant trips.
- ✓ Improved productivity.



ProcessVue Analyser introduces a set of unique dashboards and a comprehensive set of KPI reports based on industry standards and guidelines such as EEMUA 191 (rev 2 and 3), ISA 18.2, IEC 62682 and BS 62682. A configurable report scheduler automatically delivers the information you need - when you need it.

### Most Frequent

- ✓ Alarms by Tag
- ✓ Alarms by Tag Whilst Shelved
- ✓ Interventions by Tag
- ✓ Shelved Alarms by Tag
- ✓ Acknowledgements by Tag
- ✓ Alarm Actions by Tag

### Alarm Detail

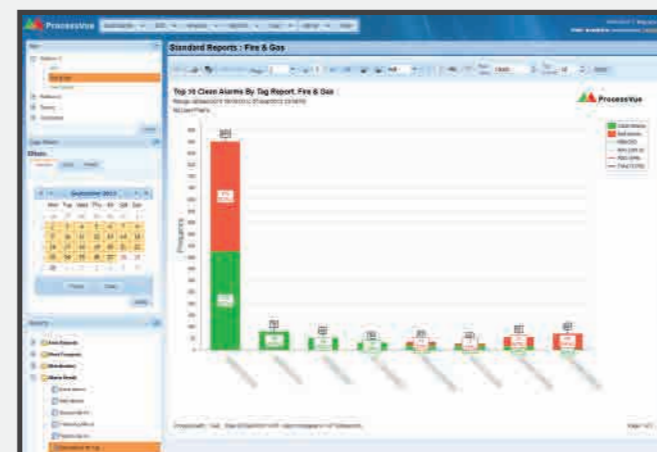
- ✓ Active Alarms
- ✓ Stale Alarms
- ✓ Shelved Alarms
- ✓ Chattering Alarms
- ✓ Fleeting Alarms
- ✓ Clean Alarms

### Distribution by

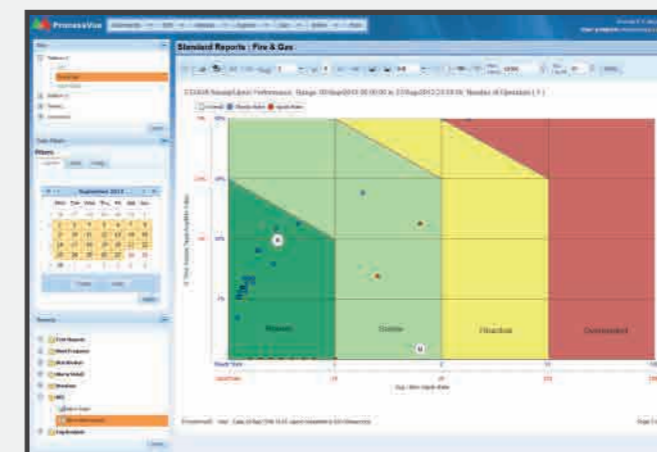
- ✓ Alarm Status
- ✓ Priority
- ✓ Plant
- ✓ Area
- ✓ Unit
- ✓ Console

### Duration

- ✓ Duration Summary
- ✓ Duration Detail
- ✓ Flood Duration
- ✓ Operator Response



Clean Alarms report

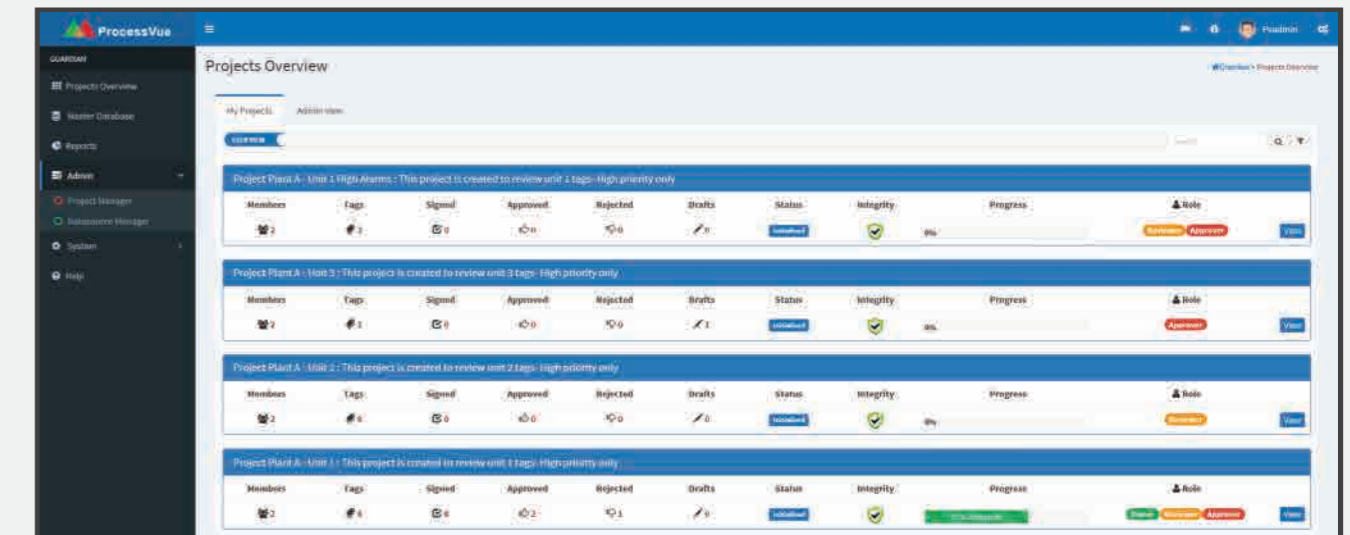


Alarm Performance report

## ▶ ProcessVue Guardian

ProcessVue Guardian integrates a Master Alarm Database (MADb) and Management of Change functionality, into a single powerful application to help you manage your alarm improvement projects. Designed from the ground up to be easy to use and configurable, ProcessVue Guardian will import alarm configuration data from your control system, allowing you to review, change, approve and export rationalised data in a collaborative environment.

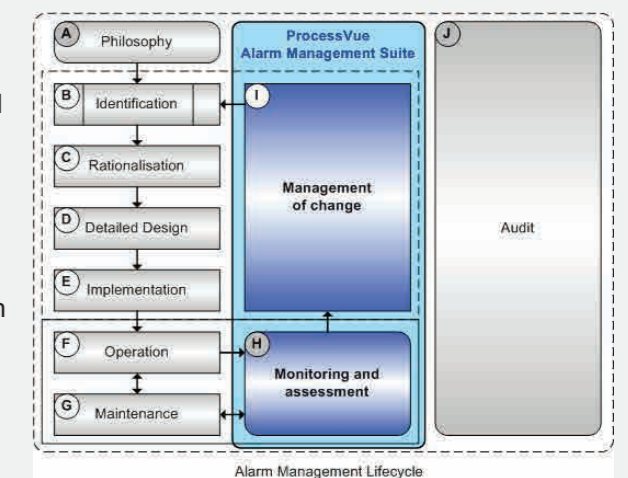
ProcessVue Guardian allows your alarm data to be segregated into Projects, each Project can be assigned to a different team of people and the progress tracked. An audit trail records each and every change. Create Projects for each Unit, Plant Area or responsibility. Stop trying to manage multiple, huge Excel sheets and version control. ProcessVue Guardian handles all this for you.



**“Rationalisation is the process of applying the requirements for an alarm and generating the supporting documentation, such as the basis for the alarm setpoint, the consequence, and corrective action that can be taken by the operator”. (IEC 62682 – 5.2.2.4).**

Ensuring your alarm population is relevant and useful, is fundamental to good alarm management; and ProcessVue Guardian includes all the tools you require to rationalise the alarms in your Master Alarm Database.

- ✓ Make Alarm Priority calculations according to your Alarm Philosophy.
- ✓ Provides a collaborative environment so everyone involved is aware of proposed changes.
- ✓ Build and maintain a digital Alarm Response Manual by recording the cause of the alarm, consequence of missing and suggested Operator actions.
- ✓ Link to external documents such as P&ID drawings, design specifications and work orders.
- ✓ Give access to your System Integrators - view proposed alarms and rationalise them before implementation.



## ▶ Alarm Management Services

A range of services are also available to assist you with your alarm management challenges, and help you to leverage the maximum benefit from your investment in alarm management software, whether that is based on ProcessVue, vendor specific, in-house or other third party products.

From benchmarking through to complete alarm rationalisation projects and training, specialised services are on offer to meet your specific requirements.

▶ **Alarm Management Benchmark Assessment** - Helps you to understand and demonstrate the effectiveness and governance of your alarm system(s) and identify any legislative, regulatory or corporate compliance gaps which may exist and delivers a prioritised set of improvement recommendations.

▶ **Alarm Philosophy Creation** - Creating a site specific Alarm Philosophy is essential to the success of any alarm management initiative and regulators would expect to see evidence of one during any regulatory audit or intervention visit. We can help you author a standards compliant Alarm Philosophy tailored to your site.

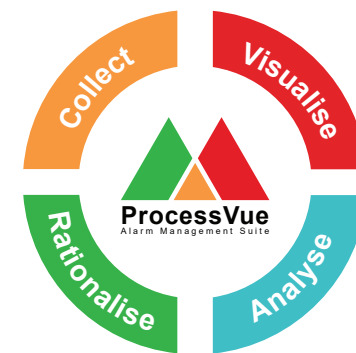
▶ **Alarm rationalisation** - Is the process of removing unnecessary alarms from your alarm population, correctly prioritising those which remain and also creating an alarm response manual. Our highly experienced Consultants can guide you through this process, or chair and drive the whole project.



▶ **Nuisance Alarm Remediation** - Those alarms which announce excessively, unnecessarily, or do not return to normal after the correct response is taken can be described as nuisance alarms. We can help to identify nuisance alarms and suggest remedies.

▶ **Advanced Alarm Handling Techniques** - Your alarms have been rationalised and nuisance alarms are well managed and under control, but you still have unacceptable numbers of alarms during plant start-up and / or shut-down, process upsets etc. We can help develop strategies to minimise your alarm floods.

▶ **Training** - The process of acquiring the essential skills required to undertake any of the above tasks, is vital in any organization which is seeking to improve the management of alarms. Our technical courses, suitable for all levels of personnel can be tailored to meet your specific requirements.



## The Alarm Management People

We help operators focus on running the plant

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