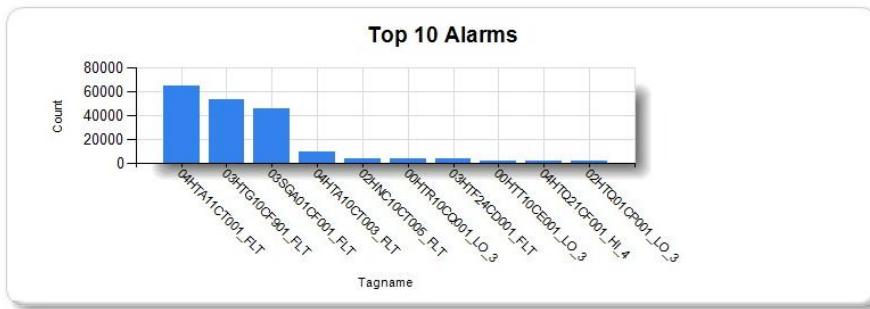


## Alarm Management Dashboard



Count	Tagname	Status	Value	Description	Priority
64647	04HTA11CT001_FLT	CFN	ALARM	Raw Gas Temp Absorber Flt	MEDIUM
53609	03HTG10CF901_FLT	CFN	ALARM	Flow Oxi Air Oxi Air Blwr 3 Flt	LOW
45437	03SGA01CF001_FLT	CFN	ALARM	F/fighting Water Flow U3 Fault	LOW
9845	04HTA10CT003_FLT	CFN	ALARM	Raw Gas Temp Comb ID Fan Flt	MEDIUM
4034	02HNC10CT005_FLT	CFN	ALARM	ID Fan Temperature Flt	MEDIUM
3816	00HTR10CQ001_LO_3	CFN	ALARM	WWT Desat Tank 1 pH Lo Warning	LOW
3269	03HTF24CD001_FLT	CFN	ALARM	Susp Mass Density Abs Unit 3 Flt	LOW
2125	00HTT10CE001_LO_3	CFN	ALARM	Mtr Current Agi Abs Blow Lo Warning	LOW
1371	04HTQ21CF001_HI_4	CFN	ALARM	P/water Flow Drop/Sep U3 Hi Alarm	MEDIUM
1359	02HTQ01CF001_LO_3	CFN	ALARM	P/Water Press Pump 1A Lo Warning	MEDIUM

Process control alarm systems have one common goal which is to inform operators that a process deviation has occurred and some corrective action is required. In most cases however, this goal is not satisfied. Before corrective action can be taken, an operator must first recognise the fact that an alarm has been generated and then respond in an appropriate manner to that alarm. Many control systems provide inadequate alarm systems which proliferate alarms and overwhelm operators, putting equipment and personnel in danger.

If your HMI/SCADA/DCS system generates a large number of alarms which are routinely acknowledged, ignored or disabled by operators then you have an alarm system that is out of control. Many industrial accidents have occurred as a direct result of a poor alarm system, including the Texaco Milford Haven accident of 1994. The official report into the disaster cited inadequacies in the alarm management system as a major factor in the accident. Too many poorly prioritised alarms being generated led to injuries to 26 people and £48M of damage to equipment.

The Alarm Management Dashboard is designed to help you get your alarm system under control by providing crucial information in an easy to understand, informative and intuitive format. Using the Alarm Management Dashboard, alarm rationalisation strategies can be implemented effectively with minimal cost and disruption to your process. These strategies usually result in a reduction in the number of alarms, improved alarm prioritization, validation of alarm parameters and improved alarm presentation.

The Alarm Management Dashboard can integrate seamlessly with your existing HMI/SCADA/DCS and centrally collect alarms from disparate control systems. Alarm management should not simply be considered as a health and safety subject, an effective strategy can significantly improve business performance and reduce the costs of a production shutdown, both in terms of lost production and risk to assets or human life.

### OPERATIONAL IMPROVEMENT

Astec focus on improving the operations of manufacturing companies by identifying key areas of the process that if improved, will yield the most significant benefits. We have developed a reputation for delivering results-driven solutions that make a real difference to our clients operations.

### PROCESS CONTROL

Astec are a leading provider of process control solutions which reach far beyond traditional HMI/SCADA systems. As well as providing exceptional process visualization and control, our solutions provide a reliable data platform for your operational improvement strategies.

### BATCH EXECUTION

Our Batch Control solutions are designed to maximise the potential of your plant without expensive capital outlay. We implement batch solutions according to the S88 Batch Control standard which can improve productivity and product quality and enable our customers to compete at a global level.

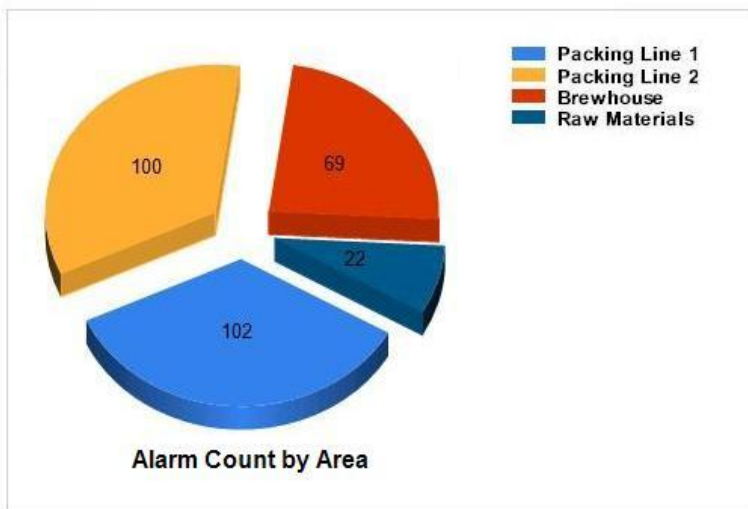
### PROFESSIONAL SERVICES

We provide a number of value-add professional services to augment the service delivery areas of our business. These include control and batch system consulting, system audits to ensure you are getting the most out of your software investment and the supply of experienced manpower to ensure your project stays on track.

## Features and Benefits

- See the bigger picture – view a real-time display of the most frequently occurring alarms from your system, together with the total number of occurrences to find out where your alarms are coming from, why they are occurring and what you can do to prevent them occurring.
- Change the role of the operator – improve operator workload, increase efficiency, reduce downtime and enable operators to spend more time controlling and improving the process.
- Understand your alarm system – drill-down into the heart of the alarm system and determine where and why your most frequent alarms are occurring.
- Improve operator responsiveness – remove the need for operators to carry-out mass alarm acknowledgment which potentially leads to missed alarms and critical plant conditions being overlooked.
- Reduce nuisance alarms – the dashboard highlights the most commonly occurring alarms so you can take steps to reduce the frequency.
- Identify long-term active alarms – if your system contains alarms that have been active for a long period of time, the chances are that they are being ignored because they are not critical or associated with equipment that is off-line.

The Alarm Management Dashboard, when used in conjunction with Astec's Alarm Masking module can deliver a radically improved alarm system that is effective, meaningful, informative and above all, usable. The Alarm Masking module allows alarms associated with equipment that is off-line, under maintenance, faulty or problematic to be temporarily disabled in real-time. This can reduce the number of potential alarms and prevent nuisance alarms from overwhelming an operator and hiding other potentially more serious alarms.



## System Requirements

- Microsoft SQL Server 2000 or higher (other ODBC compliant databases supported)
- Microsoft SQL Reporting Services 2005 or 2008
- Microsoft Internet Information Server 6 or higher (Reporting Services 2005 only)
- Microsoft Internet Explorer 6 or higher



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### TECHNICAL SUPPORT

Our team of engineers includes members who have worked in a technical support role for many years and are used to delivering the personal, results orientated service that customers expect from a technical support team. We have the skills and experience to provide a tailored application support service for your control and automation system to ensure that it continues to perform at its optimum level, all of the time.

### BESPOKE DEVELOPMENT

The majority of solutions that Astec deliver to our customers leverage off the shelf software components to ensure the minimum risk and greatest benefit. However, to ensure the unique requirements of our clients are met, it is often not possible to implement solutions without some bespoke development. In these situations our highly qualified team of software engineers will deliver innovative bespoke solutions using standard Microsoft technologies including Visual Basic, Visual C++, VB.NET, ASP.NET, C# and SQL Server.

For more information on any of our products or services please visit us on the Web at: [www.astecsolutions.co.uk](http://www.astecsolutions.co.uk)