



An Engineering Community of Practice

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TECHNICAL AND MANAGEMENT SERVICES

SAFETY CRITICAL SYSTEMS

PROJECT MANAGEMENT



## A Software Management Tool for Every Control Room. Specifically Designed to Provide an Active Log of Control System Overrides

This includes:

- Specifically designed bypass that is activated by a key switch or from the HMI
- Equipment out of service
- Forced values within the Process Automation System
- Temporarily wired links
- Items blocking the view of "line of sight" devices
- Valve jammers

### Requirement for Override Control

With the advent of standardisation related to safety critical systems, such as IEC 61508 and IEC61511, people have been made more and more aware of the importance of the life cycle requirement to maintain and operate their plant protection systems. An important element of this life cycle is the management and control of plant overrides.

Plant overrides are inevitable if production is to be maintained whilst essential testing, maintenance, operations and repairs are carried out.

Currently the HSE and other regulatory commissions have identified that a weakness and inconsistency currently exists in the process of override management.

The importance of dealing with this vulnerability has been highlighted by many infamous and unfortunate incidents around the world.

Acumen Override Logbook is the solution that meets many of the demands required by the HSE and leading engineers within corporate industry.



### Overview

Acumen logbook is an electronic version of your paper Override Logbook. Not only does it put your logbook into an electronic format, bringing it inline with the current trends to have flexible audit-able plant management systems, but it also manipulates your overrides in away paper never did. This ensures that you visualize your overrides in the safest clearest way and fully document the lifecycle of each and every override. Allowing you to improve your levels of information documented for each override provides a more thorough audit trail. Once you start using the overrides logbook on your plant the documentation trail begins and can be stored on or off site to ensure that any incident investigation can utilize the data.

To further improve the flexibility, the use of secure web technology means that the logbook can be used from multiple locations. Thus increasing the efficiency of your plant personnel in a fast changing cost constrained operational environment.

Designed to run on a network or 'stand alone', the Oracle backbone ensures secure data storage and rapid data retrieval at all times, thereby improving overall process management

### Features

#### Ease of Operation

Completely intuitive, the package provides the operator with a simple yet reliable and efficient means of tracking and controlling plant overrides in accordance with your companies override control strategy and industry best practices. The Acumen Override Logbook has a simple icon driven menu structure, allowing even the most inexperienced operator to quickly utilize all the tools and make effective use of the information available.



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### Open Access with Secure Operation

The logbook has a unique operating principle in which all users can view the logbook displays and analyze the stored information. Where as every operation that modifies or adds to the database requires the operator to enter in their unique alphanumeric PIN, representing a 'digital signature'. With millions of different PIN combinations secure user identification is provided.

### Extensions

Acumen Extensions adds communications, further functionality and procedural methods to the logbook. The extension's can be plugged into the logbook application at anytime. Each extension has been designed to meet a specific demand that our clients have requested. For further information view our website or contact us and ask for the extension listing.

### Acknowledgement, Authorization and Approval



An important aspect of all override policies is the principle that the control room operator is kept aware of all overrides in place, that the duty supervisor has authorized the application of overrides during their shift and that the asset manager is kept aware of the most critical overrides.



Acumen provides a clear facility for identifying and recording the status of each override with respect to the Control Room Operators awareness, Supervisors authorization and when necessary the Managers approval.

### Traceable Reviews



An important feature of the logbook is its ability to provide team leaders, technical and process authorities the ability to easily identify those overrides that they have not previously reviewed and then leave a traceable record when they have reviewed a currently active override.



Furthermore, during this process the reviewer can add notes to an override; this is then highlighted to all other logbook users. This is a useful tool if you wish to raise attention to upcoming events or specific concerns.

### Comprehensive Audit Trails

A key factor in the design of the Acumen Logbook is its detailed and comprehensive audit trail. Every action that takes place in the logbook is recorded in the audit log, where it is displayed in chronological order. Actions that are specific to an override tag are also automatically entered into the overrides historical record.

### Perform Statistical Analysis

As well as performing the conventional logbook function, it can also provide the engineers with statistical data related to the application of plant overrides. This enables the engineering and production team to maintain the Safety Integrity Level of plant protection systems, improve maintenance routines and target specific plant items for further engineering.

### Simple setup

The Acumen logbook can be set up in less than an hour. It requires no special hardware or pre installed software other than the normal windows operating systems. The Acumen installation disc contains all the components required for the logbook to run successfully. The override database can be populated through the administration section, by a spreadsheet import or on the fly. Furthermore the Acumen help facility provides a comprehensive step by step guide.

### Key Benefits

- Effective control of plant overrides
- Enhance compliance to current and new regulations
- Improved operator effectiveness
- Comprehensive override records
- Cross reference between the override, the associated permit to work and the risk assessment.
- Achieve an effective review process for technical, operational and process authorities.
- Adaptable to today's mobile technology
- Widely accessible across both the plant and the company
- Use of statistical data to identify areas requiring attention
- Complete and detailed audit log of all logbook transactions
- Easily installed and configured
- Demonstrate alignment to company strategy and procedures
- Extensions provide product customisation and interconnectivity.