

Eliminate paper-based equipment logbooks

The Syncade Electronic Logbook Application eliminates the need for **paper-based** operations logbooks for equipment cleaning, calibration, and maintenance activity. It also removes the hassle of finding a pen that works and the frustration of paper sign-offs. The Electronic Logbook Application enables quick review and approval of equipment status at the point-of-need, as well as electronic signature verification and approval.



Pre-engineered software configuration reduces engineering

Syncade Smart Operations Management Electronic Logbook application provides pre-defined equipment classes, security groups, equipment views, and reports to enable you to eliminate paper logbooks. This pre-engineered software can be modified to fit the unique requirements of a particular project. These configuration templates reduce engineering and testing efforts by enabling project teams to build upon Emerson's process expertise. The Electronic Logbook application includes preconfigured software, security user groups, test procedures, pre-defined web parts, as well as software installation and loading.

Equipment classes save time

Class Properties. Each equipment class is pre-defined with name, description, properties, and events.

Events. Common events with properties are pre-configured to include general information, name, description, event types, (transient, start/stop, system event), recording of process orders, and schedule.

Equipment States. Event states have been defined provide the easy determination of the current state of the equipment based on the occurrence of events.

Event Rules. Logical rules have been established to help ensure proper use of equipment and manage common business rules such as Filter usage for the Filter Housing class.

Class	Events	Event States
Reactor	In Use	In Use, Unavailable
	Rinse	Rinsing, Clean
	Visual Inspection	Pass – Available Fail - Unavailable
	Out of Service	Out of Service
	Maintenance	Performing Maintenance, Unavailable
Raw Material Tank	Fill	Filling, Available
	Transfer	In Use, Empty
	Rinse	Rinsing, Clean
	Out of Service	Out of Service
	Available	Available
	Unavailable	Replace Filter Required
Filter Housing	In Use	In Use, Ready for Test
	Integrity Test	Pass – Available Fail - Replace Filter Required
	Replace Filter	Ready for Test
	Out of Service	Out of Service
Event Log	Record Event	Ready
pH Calibration Class	Standard Calibration	In Calibration or Out of Calibration based on recorded results.

Pre-defined configuration allows you to build on our expertise

Security User Groups. Three “typical” user groups have been pre-defined: System Administrator, Equipment Operator, and Equipment Supervisor. Each user group has been assigned permissions appropriate for their role.

Security / User Groups	Description
System Administrator	Access to all application administration settings and configuration and Access to User Account creation and management
Equipment Operator	Access to perform basic equipment events
Equipment Supervisor	Access to perform basic equipment events and to perform reviews and overrides.

Equipment Views. Custom views for each of the defined equipment classes allows quick access to information regarding the status of process equipment.

Views	Description
CGMP Status	Provides tree view sorted by cGPM status of equipment.
Acquired Date	Provides tree view sorted by equipment acquired date.
Equipment Class	Provides a tree view all equipment classes and events by Equipment Class.
Code	Provides a hierarchal tree view all equipment and equipment events by Equipment Code.
CPM	Provides a hierarchal tree view of the physical model including Enterprise, Site, Area, Cell, and Unit
My Work Orders	Provides a listing of Work Orders assigned to the user logged in.

Data integration for easy data access

Web Portal web parts. For easy access to equipment information from any device on the network, web parts displaying important information is pre-defined.

Wireless devices.

Operators can gain easy access to equipment logs using a handheld device. Handheld provides access to real-time equipment status, and ability to perform equipment events.

Web part	Description
Perform Event	Provides the ability to Perform equipment events
Equipment Event History	Provides a read-only display of equipment history for a given period
Equipment by Order	Provides a read-only listing of equipment utilized by Process Order
Scan Equipment	Scan Equipment from wireless handheld device to determine equipment state.

Comprehensive reports support compliance

Reports. Pre-defined Crystal reports provide complete event history, as well as equipment definitions, such as classes, lists, and details. Additionally, reports have been defined to detail use and access to the equipment.

Reports	Description
Equipment Class Definition	Report of a specified Equipment class configuration settings – Custom Properties, Events and parameters, rules and general settings.
Equipment State Status	Report of the current state for each equipment configured
Equipment Lists	Report of currently active equipment
Equipment Details	Report of the equipment details for selected equipment
Equipment Event History	Report on specified equipment over a duration of time specified at run time
Equipment Administration Settings	Detail listing of Equipment Administration Settings
User Accounts	Report of User Accounts configured for the system
User Groups	Report of User Groups and their permissions

Documentation delivered to support validation efforts

Project Management Plan. This document outlines the process and methodology used to develop the configuration.

Schedule. A pre-defined schedule of the tasks required to implement the solution is provided.

Functional Specifications. The functional specifications used to generate the Electronic Logbooks configuration are provided.

Detailed Design Specifications. The design specifications used to generate the Electronic Logbooks configuration is provided

Executed Test Procedures. The test plans used to verify the Electronic Logbooks configuration functionality is provided.

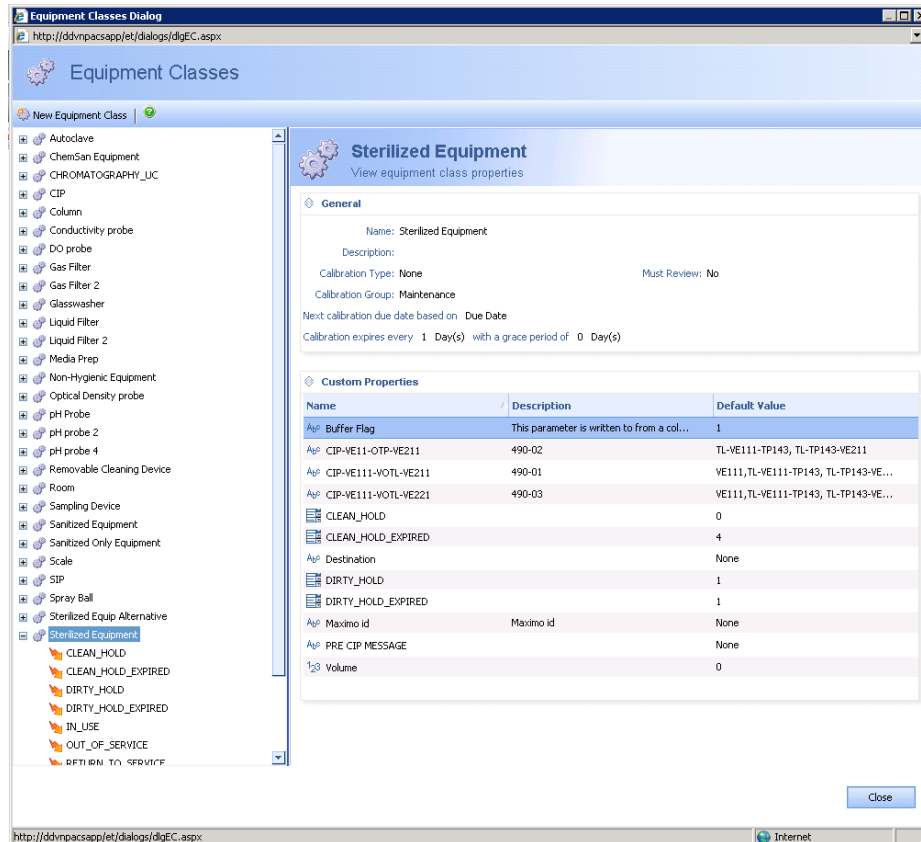
Services provided

Software Installation. The installation of Equipment Tracking, Security & Audit software modules, as well as SQL Server 2008 is provided.

Equipment Import. The loading of equipment instances is provided.

User Account Import. The loading of user accounts from the MS Active Directory is provided.

Consulting. 40 hours of consulting services is provided to help ensure that the end user gains operational benefit from this solution.



The screenshot shows the 'Equipment Classes Dialog' window. The left pane lists various equipment classes, with 'Sterilized Equipment' selected. The right pane displays the configuration for 'Sterilized Equipment'.

General

Name: Sterilized Equipment
 Description:
 Calibration Type: None Must Review: No
 Calibration Group: Maintenance
 Next calibration due date based on Due Date
 Calibration expires every 1 Day(s) with a grace period of 0 Day(s)

Custom Properties

Name	Description	Default Value
App Buffer Flag	This parameter is written to from a col...	1
App CIP-VE11-OTP-VE211	490-02	TL-VE111-TP143, TL-TP143-VE211
App CIP-VE111-WOTL-VE211	490-01	VE111, TL-VE111-TP143, TL-TP143-VE...
App CIP-VE111-WOTL-VE221	490-03	VE111, TL-VE111-TP143, TL-TP143-VE...
CLEAN_HOLD		0
CLEAN_HOLD_EXPIRED		4
App Destination		None
DIRTY_HOLD		1
DIRTY_HOLD_EXPIRED		1
App Maximo id	Maximo id	None
App PRE CIP MESSAGE		None
Volume		0

Syncade Electronic Logbook solution reduces errors and eliminates paperwork.

Syncade Smart Operations Management Equipment Logbooks bundles software and services to comprehensively address equipment tracking. This solution includes several components:

Equipment Tracking (ET) Software Module

ET extends plant floor automation to include comprehensive equipment tracking. It manages equipment use, status, maintenance, and calibration records. The intuitive, user-friendly interface makes it easy to schedule, assign, track, and report all equipment information necessary to meet your compliance requirements, as well as support your asset management strategy. ET provides point-of-need verification through wireless hand-held devices. It improves the efficiency of equipment-related activities, such as asset management, calibration, and equipment cleaning.

Security & Audit (SA) Software Module

Security and Audit provides controls for individual or multiple Compliance Suite applications to be used in a 21CFR Part 11-compliant manner. It provides complete security services, such as user authentication, electronic signature and transaction activity control that must be logged to an audit trail.

Electronic Logbook Application

The pre-configured application templates provide a quick start to helping you eliminate paper logbooks. This pre-engineered software can be modified to fit the unique requirements of your particular project. These configuration templates reduce

engineering and testing efforts by enabling project teams to build upon Emerson's process expertise. The Electronic Logbook application includes preconfigured software, security user groups, test protocols, pre-defined web parts, as well as software installation and loading.

Consulting Services

40 hours of consulting services is provided with each Electronic Logbook solution. This service will help end users evaluate their requirements and identify quantified business results to be achieved.

First Year Maintenance

One year of SureService is provided.

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