

Product Information Note

DynAMo® Documentation & Enforcement

Keeping your processes safe and profitable



DynAMo® is DCS-independent software that helps keep processes safe and profitable with an array of alarm system management features.

DynAMo® Documentation & Enforcement

DynAMo® Documentation & Enforcement, part of the DynAMo Alarm Suite family, is advanced alarm management software for engineering an alarm system to meet a site's alarm management policies and to ensure the engineered configuration remains in effect over the lifecycle of the plant.

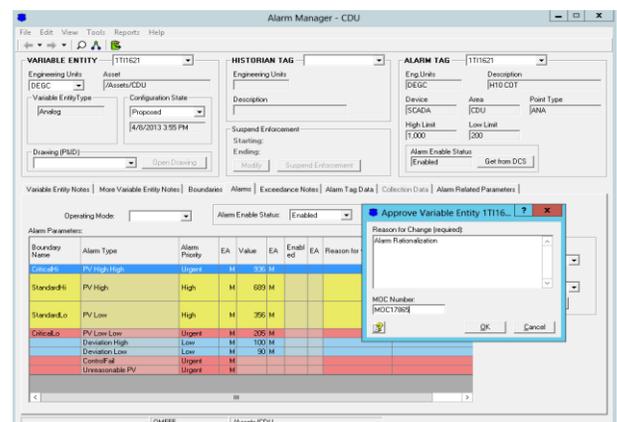
DynAMo provides the capability to create and maintain a master alarm database for the alarm system configuration. It allows for comparison of the control system alarm configuration to this master database and enforcement of the engineered alarm configuration in the control system. It also supports enforcing lists of exceptions to the typical alarm configuration to handle various operating modes and states of the plant.

Proven Benefits

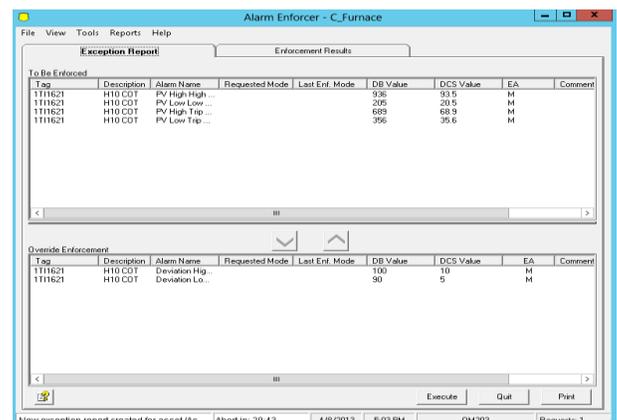
Alarm systems help the operator manage complex processes by directing their attention where it is most needed. If the alarm system is not designed and managed well, it generates too many directions for the operator and key events are missed. Plant efficiency and reliability will suffer as a result. The operator and alarm system must work together effectively for maximum results. DynAMo Documentation & Enforcement provides the following benefits:

- Captures and maintains a complete set of alarm rationalization data
- Reduced effort to capture documentation & configuration for each alarm
- Alarm limits are consistent with plant operating limits
- Easy application of mode/state-based alarm configurations
- Easy implementation of Management of Change of the alarm system
- Allows creating personal alarm configuration specific to your DCS

- Detects and corrects alarm system discrepancies (referred to as enforcement) for each console through Enforcer Server
- Provides report of differences between engineered and DCS settings
- Configures alarm system data, operator performance support information, and constraints
- Generates files listing the configured tags in a control system and synchronize the same with DCS



DynAMo Management of Change



DynAMo Enforcement

Key Capabilities

DynAMo Documentation & Enforcement is a DCS-independent application that helps keep processes safe and profitable with an array of alarm system management features:

- **Alarm System Documentation** – provides a central location for alarm settings and related documentation derived from alarm analysis and rationalization
- **Change Management** – detects disabled or modified DCS alarm settings and optionally enforces the rationalized values. Alarm system change can be effected through DynAMo rather than directly on the DCS, making audit trails and configuration workflow possible
- **Operator Performance Support** – supports operator performance with online help that describes cause and effect of an alarm along with recommended response
- **Constraints and Boundaries** – becomes the repository for equipment constraints and operating boundaries as well as DCS alarm settings.
- **Reporting** – provides detailed documentation, change management, enforcement and configuration reports
- **Offline Configuration** – allows most alarm system, change management, constraint and boundary configuration to be done prior to establishing a DCS connection
- **Audit Trail** – maintains a log of all changes made to the alarm system which helps identify the particular change that might have caused any issue or improvement
- **Configuration Workflow** – can have tags in different states enabling user to change the configuration, validate with DYNAMO, and release approved configuration to DCS, ensuring right configuration enforced
- **Monitor Mode** – runs in monitor mode where it detects and logs discrepancies but does not enforce them. Recommended changes pop up to ensure the right limits are being enforced.

DynAMo and Control Systems

The interface between DynAMo and the control system is via OPC Data Access (DA) or files. When OPC is used, DynAMo requires one OPC DA server for each control system and this server must support OPC DA 1.0a or 2.0 specifications. Some interfaces support write access, where DynAMo is able to enforce alarm settings, while others provide read-only access, so that DynAMo can report on differences but cannot enforce alarm settings. When OPC cannot be used DynAMo can access alarm configuration data from a properly formatted text file rather than accessing the control system directly. This allows DynAMo to document and report on control systems that do not have OPC DA access.

Offline Components

It is possible to deploy DynAMo Documentation & Enforcement without a control system connection, and the components can be networked or installed on a server based operating system. This is known as offline or disconnected DynAMo installation and it supports almost all aspects of DynAMo configuration. This can be useful during the design stage of a project where the control system is not yet available but you wish to capture and analyze the alarm configuration decisions being made, or as part of an alarm rationalization project.

Connection to a Historian

DynAMo variables support a connection to a historian tag. Two options are supported: Honeywell Uniformance PHD and generic historians via Business FLEX. Business FLEX connects to generic historians such as PI using OPC HDA. Connecting DynAMo to a historian provides access to timely, accurate information, which can lead to better, faster decisions, improvements in process performance and safety. It also helps satisfy regulatory drivers and fend off security threats with accurate, safe and secure information storage and sharing.

Communicating Across a Firewall

DynAMo includes proxy and web service components that can be installed and used to communicate across a firewall. The benefit is that DynAMo can be deployed across a firewall both on business network (Level 4) and process network (Level 3). Certificates can be optionally installed and configured to sign and encrypt communication between DynAMo Proxy and Web Service host computers.



Support Services

This product comes with worldwide, premium support services through our Benefits Guardianship Program (BGP). BGP is designed to help our customers improve and extend the usage of their software applications and the benefits they deliver, ultimately maintaining and safeguarding their software investment.

For More Information

To learn more about how Honeywell's DynAMo Alarm Suite can improve your alarm system performance and plant safety, visit our website www.honeywellprocess.com/software or contact your Honeywell account manager.

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