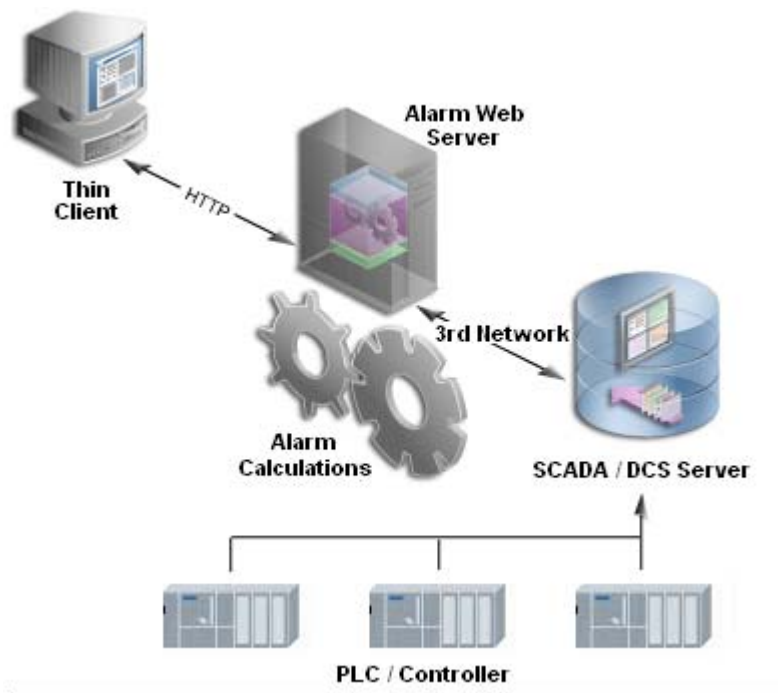


Plant Alarm



The *icis* Plant Alarm Application allows for Web based plant alarm analysis and reporting direct from your desktop browser.

- Direct connection to your alarm data source Historian or DCS / SCADA
- No Alarm Data copied or stored thus Validation only required at the Results and Report level
- Analyse alarms across Production Cells, Equipment and Shifts
- Generate alarm reports to isolate nuisance and frequent alarms
- Align your plant to EEMUA guidelines for alarm management

Introduction

The *icis* Plant Alarm Application is designed to bolt directly onto Automation alarming applications. The system has been designed to incorporate the open standards provided by Automation Vendors that allow for 3rd party applications to connect directly to their systems and source information from their Alarm Repositories.

The system is non intrusive to the rest of your Automation architecture as it is acting as a read only system into your alarm repository.

The system can reside on any application station in your control environment or can be installed onto its own dedicated report server. The openness and availability of the tool is up to you.

Benefits

Direct Alarm Connection

By connecting directly to your Alarm Data Source the Plant Alarm Application removes the need to perform periodic transfers of information to a separate historical database. This removes the need to validate a separate repository and ensures your data, be it Validated or Non-Validated, resides in one data repository at your control system. If the alarm reporting server becomes unavailable for any reason you are safe in the knowledge that as it is only acting as a view into your control system which ensures that no data corruption or loss will occur.

Historical Alarm Review

Process control systems handle plant alarming. Once these alarms have been acknowledged and cleared they are no longer available for review in the front end. The Plant Alarm Application allows for the review and analysis of alarm data that is no longer displayed at the control system. Using the tool users can review such items as the top 10 alarms per shift, day, week etc to analyse what alarms are consistently being generated from the plant. By isolating the frequent alarms, projects can be put in place to tackle the root cause of the issue. These causes can range from faulty field devices to incorrect process parameter limits used in production.

Alarm Report Generation

Generate alarm reports with the application to allow the review of data pre and post any alarm rationalisation improvement projects. The reports allow for the graphical display of alarm calculation results to be used in order to provide visual results for presentations.

Response Times

Review alarm response times to ensure that your Critical and GMP alarms have been responded to in specified time limits. Use the response analysis to aid in the training and review of alarm importance with operations.

Align with EEMUA

Using the application will help put your site on path to reaching EEMUA 191 guidelines on alarm handling.

Alarm Rate	Acceptability
More than 1 / min	Unacceptable
One / 2 min	Over-demanding
One / 5 min	Manageable
Less than 1 / 10 min	Acceptable

EEMUA Guidance of Alarm Frequency Acceptability

Network Openness

As the system runs within a browser environment users can review alarm data from either the automation control terminals or from their Enterprise desktop computer if a corporate LAN connection is made to the Alarm Report Server.

Product Description and Specification

The Plant Alarm Application has been developed through Microsoft .Net Technology and is currently configured to run on version 2.0 of the framework. The system incorporates the latest features of the framework in its Security, Web Services and Font End design. In order to provide for a better user interaction we use the latest AJAX technology to enhance the user experience.

The report web server runs in Microsoft Internet Information Server (IIS) version 6.0, which can be enabled, on any Windows 2000 / 2003 server.

The system uses Microsoft SQL Server 2005 Express Edition as its underlying data store for configuration and storage of information.

System Compatibility

The system is currently compatible with the following:

- Emerson Delta V
- Simatic WinCC
- GE IFix

For other SCADA / DCS technologies please contact info@icissoftware.com

Prerequisites

The application requires a report server with:

- Windows XP Pro/2000/2003
- Microsoft IIS 5 / 6
- 1 GB of RAM
- 1 CPU of 2GHz
- 2GB Hard disk

System Installs

The application ships and installs the following products and components:

- icis Plant Alarm 2.0
- SQL Server 2005 Express
- .Net Framework 2.0
- AJAX Components 1.0

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