

VCS Alarm Management System (AMS)

Overview

eCubix AMS is a comprehensive web-based intranet application designed for managing alarms. It covers alarm configuration, notification, acknowledgment, and actions in an efficient manner

Application Structure



Hosting

On-premise, hosted on an IIS server.



Requirements

SMTP server for email notifications, SMS web service for text alerts, SQL Express 2016 for data management, and open ports 1433 (SQL) & 80 (HTTP).



Compatibility

Supports major browsers including Internet Explorer 9+, Mozilla Firefox 11+, and Google Chrome 61+.

Key Features

ALARM CONFIGURATION

Ability to read, classify, and name alarms using OPC tags.

ACKNOWLEDGMENT

View alarms on-screen with color-coded classifications, and use multi-select functionality for batch acknowledgment.

NOTIFICATION

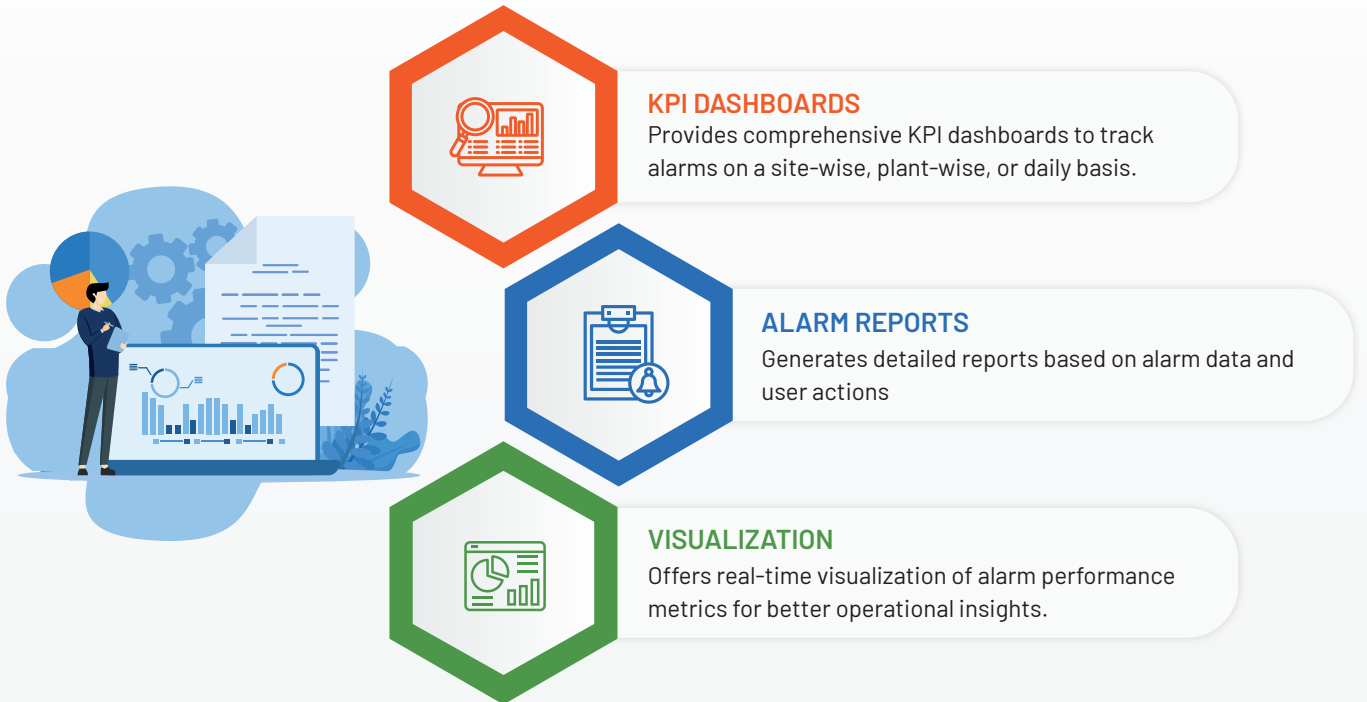
Configurable rules for alarm notifications via SMS, email, and on-screen alerts.

ACTIONS

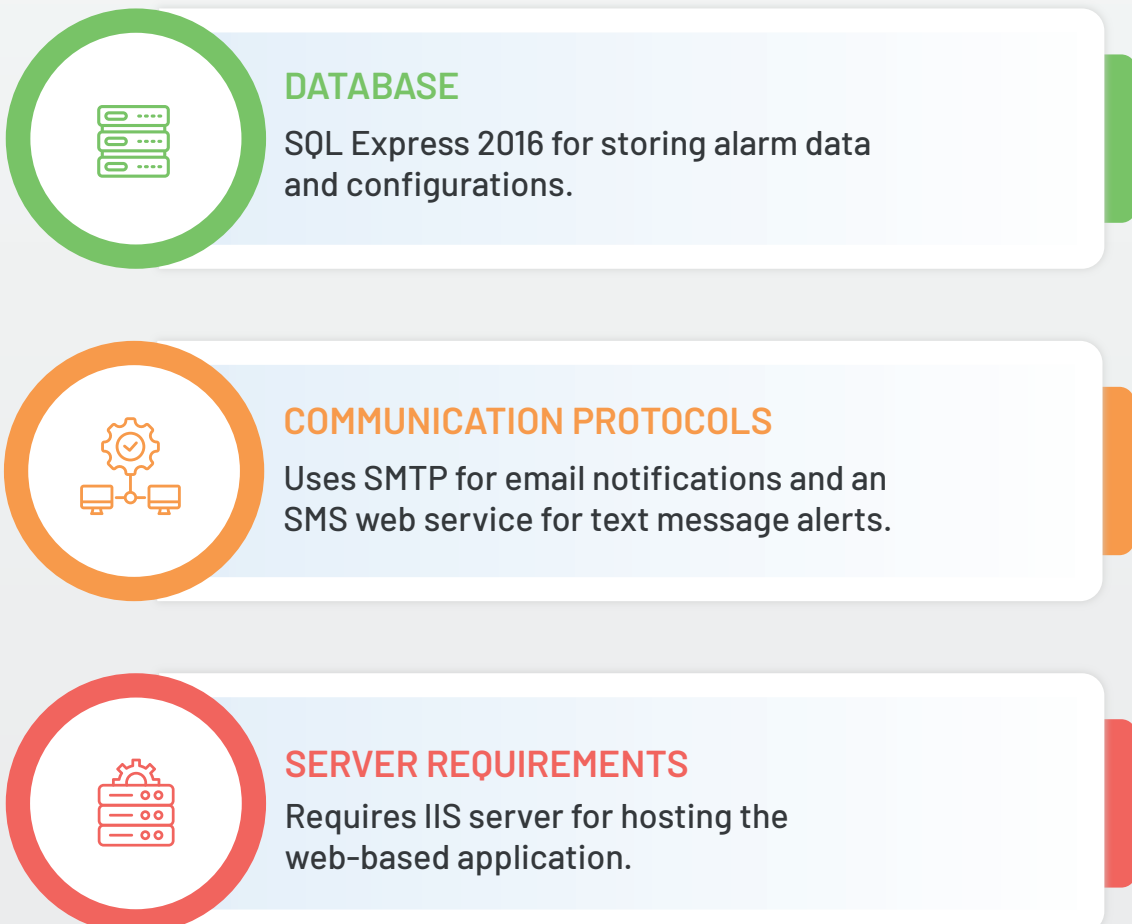
Allows users to add comments, suppress, silence, or clear alarms based on predefined actions and rules.

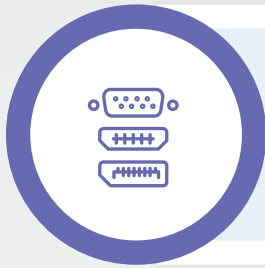


Reports and Dashboards



Technical Specifications





PORTS

Open ports 1433 (SQL) and 80 (HTTP) for proper connectivity.



SUPPORTED BROWSERS

IE 9+, Mozilla Firefox 11+, Chrome 61+, providing flexibility in accessing the application across various platforms.

Components



ALARM CONFIGURATION

Provides the ability to read, name, and classify alarms with OPC tags.



NOTIFICATION RULES

Configurable notification rules for sending SMS, email, and on-screen alerts based on alarm triggers.



ACKNOWLEDGMENT AND ACTIONS

Users can acknowledge alarms, add comments, and perform actions like suppressing, silencing, or clearing alarms from the system.

Security and Compliance



User Authentication

Secure login for users, ensuring only authorized personnel have access to the alarm management functions.

Audit Trail

Logs all actions taken on alarms for traceability and accountability.

Data Integrity

Ensures secure and accurate handling of alarm data throughout the system.

Prerequisites from Client



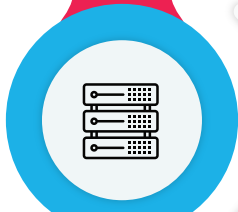
SMTP and SMS Web Service

Properly configured SMTP server for email alerts and SMS web service for text notifications.



SQL Express 2016

Installed and configured for database management.



IIS Server

Available and configured for hosting the web-based AMS application.



Network Access

Open ports 1433 and 80 for database and web server communication.

Compliance and Standards

- ▶ **Data Integrity and Security Standards:** Adheres to industry-standard practices for alarm management, data security, and notification handling.
- ▶ **OPC Compliance:** Compatible with OPC tags for alarm configuration and integration with other systems.

