IPXMONITOR

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v1.0.3.0

Low Priority
10/10/2024 09:18:13

Medium Priority
10/10/2024 09:17:59

Low Priority
09/10/2024 16:15:19

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TECHNICAL SPECIFICATIONS

IPXMonitor was developed to centralize, manage, and streamline the handling of events and alarms from a variety of sources, such as IPXAnalytics, sensors, cameras, and IoT devices. Its web-based architecture provides secure, real-time access, enabling quick and efficient analysis of incidents. In addition, it integrates with generative AI to assist with data processing and decision-making, offers automation features, and supports granular access control through user permissions.

MAIN FUNCTIONALITIES

Event Registration

- **Centralized Event Logging:** Stores occurrence and alarm data in a single, secure database.
- **Custom Classification:** Define event priorities and types for faster identification and handling.

Alarm Handling

- **Real-Time Monitoring:** Receive instant alarm notifications and manage them in a centralized interface, organized in a Kanban-style layout with priority-based sorting.
- **Automated Responses:** Integrates with predefined rules to execute automatic actions, such as sending emails or triggering devices.

Reports

- **Customizable Reports:** Provides detailed reports on events and incidents.
- **Data Export:** Allows exporting records in Excel and CSV formats for external analysis and archiving, including image exports to enhance the AI model.

Charts

- **Intuitive Dashboard:** Visualizes alarms through combined bar and line charts.
- **Charts:** Track metrics and indicators by event types, accuracy levels, and locations, simplifying analysis and speeding up decision-making.

User Rights

- **Granular Access Control:** Set permissions by role, department, or hierarchical level.

LPR (License Plate Reading)

- **Automatic License Plate Recognition:** Native integration with the IPXAnalytics LPR module for real-time vehicle identification.
- **Real-Time Monitoring:** Track the latest identified plates in a continuously updated interface.
- **License Plate Database:** Store recognized plate information for future reference.
- **Allow and Block Lists:** Configure lists of plates to grant or restrict access to specific areas.
- **Automatic Alerts:** Receive instant alarms when plates on the block list are detected.

Average Speed Detection

- **Real-Time Measurement:** Records a vehicle's speed based on analysis between LPR reading points.
- **Violation Logging:** Enables documentation and reporting of possible speed violations.

Virtual Operator

- **Alarm Processing:** An AI-based virtual operator validates each incoming alarm, classifying it as possibly true or false automatically, and is integrated with IPXCopilot.

Automation Schemes

- **Simple Configuration:** Intuitive interface with drag-and-drop functionality.
- **Conditions and Triggers:** Define rules based on events registered in the system.
- **External System Integration:** Option to trigger third-party systems (via API) when specific events occur.

🟢 **Standard**   🟡 **Professional**

BENEFITS

- **Data and Alarm Centralization:** Reduces failures and rework.

- **Real-Time Event Visibility:** Enables quick response times.

- **Data-Driven Decisions:** Supported by interactive reports and charts.

- **Process Optimization:** Through automation features.

- **Increased Operational Efficiency:** Leveraging generative AI with the virtual operator.

ARCHITECTURE & TECHNOLOGIES

- **Local (On-Premises) Deployment:** The application is installed directly on the client's internal network, ensuring greater control over infrastructure and security.

- **Web-Based System:** Can be deployed locally or in the cloud, with HTTPS support and a client-server architecture.

MINIMUM REQUIREMENTS

- **Minimum Configuration:** Quad-core or higher processor, 8 GB RAM, 500 GB SSD.

- **Operating System:** Windows 10/11 Pro.

- **Supported Browsers:** Google Chrome (version 125 or higher), Microsoft Edge (version 124.0.2478.67 or higher).

- **Network Connection:** At least 1000 Mbps for communication between servers and devices.

LICENSING & SUPPORT

- **License Models:** Monthly or Lifetime (with optional support).

- **Technical Support:** Available via email, phone, and WhatsApp, with SLAs based on the selected plan.

- **Training:** Comprehensive configuration and usage manual, plus online training.