6SS Modbus®

6SS Modbus® is a versatile solution that integrates Modbus-enabled devices, IoT sensors, and Milestone XProtect into a unified platform, enhancing operations and management. Acting as a Modbus Master, it enables seamless communication with Modbus slave devices while leveraging the full capabilities of Milestone XProtect, including rules, alarms, smart client presets, and Camera PTZ presets. By centralizing control over Modbus devices and IoT components, 6SS Modbus® simplifies device management and ensures smooth coordination between sensor data and security actions within the Milestone environment. Fully compatible with the entire Milestone XProtect Family, 6SS Modbus® offers an intuitive interface, streamlining configuration, automation, and real-time monitoring, optimizing security and operational performance.

Data Flow

1. 6SS Modbus® forms a secure connection with the Modbus Slave devices and monitors continuously for signal changes.
2. 6SS Modbus® interacts with the SQL database, matching the Modbus Slave signal change with the Configured Milestone Xprotect event. After matching the Modbus signal with the configuration from the SQL, the 6SS Modbus application triggers, through a secure connection, the Milestone Xprotect Events (Alarms, PTZ Presets etc...), then pushes the alarms to the Event Server.

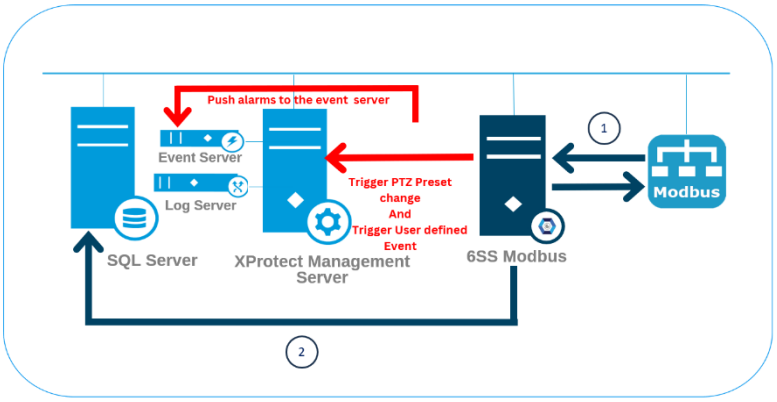


Figure 1 System Architecture

Functionality

6SS Modbus® is an add-on solution developed by 6SS Software Engineers to enhance the integration of Modbus-enabled devices with Milestone XProtect, streamlining communication and control across connected systems. By centralizing the management of Modbus slave devices, IoT sensors, and XProtect functionality, 6SS Modbus® simplifies the process of configuring, monitoring, and automating system responses. With 6SS Modbus®, administrators can efficiently manage multiple devices and set up automated rules to trigger Milestone XProtect actions, such as Camera PTZ presets in the Smart Client, whenever a Modbus slave sensor or IoT device is activated. This integration eliminates the need for manual intervention, saving time and effort, especially in large-scale deployments. The application provides real-time data visualization, seamless configuration, and ensures that Modbus devices and XProtect actions work in perfect harmony, enhancing both security and operational efficiency.

Main Benefits

- Cost effective
- Easy to use
- Simplified troubleshooting
- Increased reliability
- Reduced configuration time and errors
- Reduced IT Manpower and competency
- Customer-tailored features in case needed.

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6SS Modbus®

Key Features

Management/Configuration

The 6SS Modbus application allows users to:

- Adding/importing a list of Modbus slave devices along with their registry number and their required information.
- Mapping Cameras/devices to Milestone Xprotect functions and linking them to their respective Modbus Slaves.
- Triggering of Milestone Xprotect events, Alarms and PTZ presets.

Monitoring

The 6SS Modbus application allows users for all and every site to:

- Real-time alarm notifications, through the smart client.
- Real-time monitoring of triggering causes through PTZ presets and configured maps.

System Components

- Windows OS 10 pro or above.
- Windows Server 2016 or above.
- Microsoft .NET framework 4.7.2 or newer (for .NET components usage).
- Microsoft DirectX 9.0 or later.
- Microsoft SQL Server Express, Standard or Enterprise editions.
- Milestone XProtect Corporate, XProtect Expert, Professional+, Express+, or Essential+.
- Modbus® application installed on the Headquarter XProtect Management Server.

Business Value

Enterprises today face inefficiencies and security risks due to the manual management of multiple Modbus devices and IoT sensors across various sites. 6SS Modbus® centralizes the control and configuration of these devices within a single, user-friendly interface integrated with Milestone XProtect. This allows administrators to monitor and trigger system actions, such as camera PTZ presets, from one central location, reducing the need for on-site adjustments. By streamlining device management and automating responses to sensor activations, 6SS Modbus® improves operational efficiency, minimizes human errors, and lowers IT labor costs, all while enhancing system uptime and security across distributed environments.