

SCADA System Architecture & Status Report

Confidentiality Level: INTERNAL USE ONLY

Date: 2025-12-12

System ID: ICS-MOD-55

1. Network Topology

- Segment:** Industrial Control Network (Level 1)
- Target IP:** 192.168.1.55
- Protocol:** Modbus TCP (Port 502)

2. Component Overview

The target is a Programmable Logic Controller (PLC) managing critical flow control operations. It exposes a standard Modbus interface for telemetry and remote control.

Memory Map Configuration

- Coils (0x):** Valve actuators and pump control.
- Discrete Inputs (1x):** Physical sensor states.
- Input Registers (3x):** Analog sensor data (Flow rate, Pressure).
- Holding Registers (4x):** System configuration and confidential telemetry strings.

3. Current System State

STATUS: [LOCKED]

The system has entered a **Safety Lock** mode following a reset. Standard telemetry readout is currently unavailable.

- Operational Mode:** RESTRICTED
- Valve State:** CLOSED (Safety Default)
- Data Access:** BLOCKED
 - Note: Read operations on high-level registers currently return null/zero values due to the active security lock.*

4. Pending Action Items

- Identify the correct Unit ID for administrative access.
- Restore normal operation by disengaging the Safety Lock.
- Retrieve the configuration string (Flag) to verify full system access.