

## PROCESS CONTROL NETWORK AND OT NETWORK DESIGN

### EXPERT NETWORK ARCHITECTURE SOLUTIONS FOR ISA-95 STANDARD

#### CHALLENGES

- Pre-ISA-95 architecture lack proper network segregation, causing frequent communication failures.
- Broadcast storms and loops disrupt operations, requiring manual power cycling to restore.
- Legacy equipment can't handle modern network loads, creating bottlenecks and instability.

#### BENEFITS

- Stable network performance minimises unplanned production stoppages.
- Dramatically reduces time spent troubleshooting network issues and rebooting equipment.
- Future-proof architecture simplifies expansions and new system integrations.
- Optimised traffic flow improves data throughput and system responsiveness.
- Robust network prevents production system communications from being disrupted.

#### CONTACT

Securely and reliably build and transform your process control network with the trusted expertise of E&C Engineering.

#### SOLUTIONS

- **Comprehensive network segregation:** Clear separation between control levels (0-4) following ISA-95 best practices.
- **Advanced traffic management:** QoS, VLAN, Rate Limiter, and Access Control implementation.
- **Resilience network:** Seamless redundancy protocol and loop detection ensure continuous operation.

#### PROVEN EXPERTISE

- E&C Engineering specialises in comprehensive process control network design, from Level 0 to Level 4 network segregation.
- End-to-end solutions from design, commissioning and maintenance phases.
- OT Cyber security specialist.
- Minimal disruption to ongoing operations.

