Loft Company

Report: IEC 61850
Loft Company IEC 61850 + Core Questions + Advanced + Audit + Protection And Control

v1.0.2026-11-14

Created: 2026-11-13 23:19
Closed: 2026-11-13 23:34
Answered: 99%

Compliance Score:

98%

(477/486)

Almost all requirements met; very low risk.
A very little uncertainty due to small fraction of measuring points not addressed.

Top Risks:

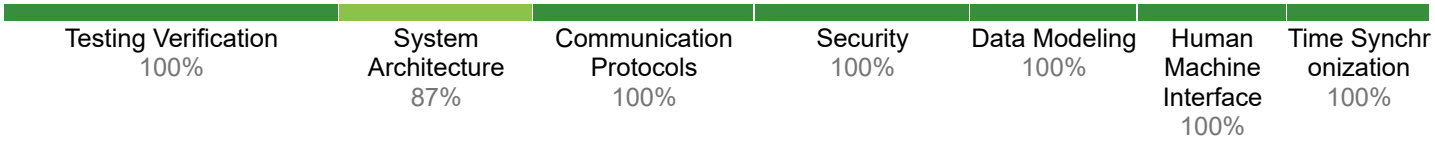
System Architecture – 25% Compliant
1. Do all IEDs support the required IEC 61850 communication and data model standards for interoperability? Unanswered
Criticality: High

System Architecture – 25% Compliant
2. Is there a complete inventory of all Intelligent Electronic Devices (IEDs) in the substation? Partially
Criticality: High

Compliance By Section:

System Architecture	87%	Data Modeling	100%	Communication Protocols	100%
Security	100%	Time Synchronization	100%	Testing Verification	100%
Human Machine Interface	100%				

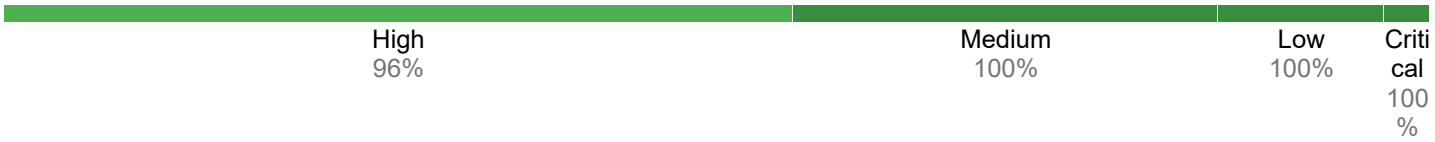
Sections, Weighted



Compliance by Criticality

Criticality	Measurement Points	Yes	Partially	No	Missing	Compliance %
Critical	1	1	0	0	0	100 %
High	46	44	1	0	1	96 %
Medium	36	36	0	0	0	100 %
Low	28	28	0	0	0	100 %
Total	**111**	**109**	**1**	**0**	**1**	**98 %**

Criticalities, Weighted



Communication Protocols

Communication protocols cover MMS, GOOSE, and Sampled Values, including their configuration, performance, and reliability requirements.

Are MMS services configured correctly for client-server communication? **Yes**

Criticality: High

Are GOOSE messages configured for fast and reliable event-driven communication? **Yes**

Criticality: High

Are Sampled Values streams correctly configured for measurement data transmission? **Yes**

Criticality: High

<< The rest of this section is left out in this sample/preview >>

Recommendations:

System Architecture

System architecture defines the structure and components of substation automation systems, including IEDs, servers, and communication networks.

1. Establish and maintain a complete and up-to-date inventory of all IEDs in the substation.

Criticality: High

2. Ensure all IEDs comply with IEC 61850 communication and data model standards for interoperability.

Criticality: High

Compliance Score: 98% (477/486)
Almost all requirements met; very low risk.