

**Report: IEC 61850**

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

v1.0.2026-04-15

Created: 2026-04-15 10:22

Closed: 2026-04-15 10:37

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.

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**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

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### Compliance By Section:

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

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### 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 %
<b>Total</b>	<b>111</b>	<b>109</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>98 %</b>

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## 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 >>**

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