



AUTOMATION-ASSISTED CONFIGURATION CHANGE MANAGEMENT PROCESSES FOR CIP-010 COMPLIANCE

NERC CIP-010 Compliance

Quanta Technology’s solutions for CIP-010 compliance provide utilities with efficient and practical implementation of the required management and monitoring processes.

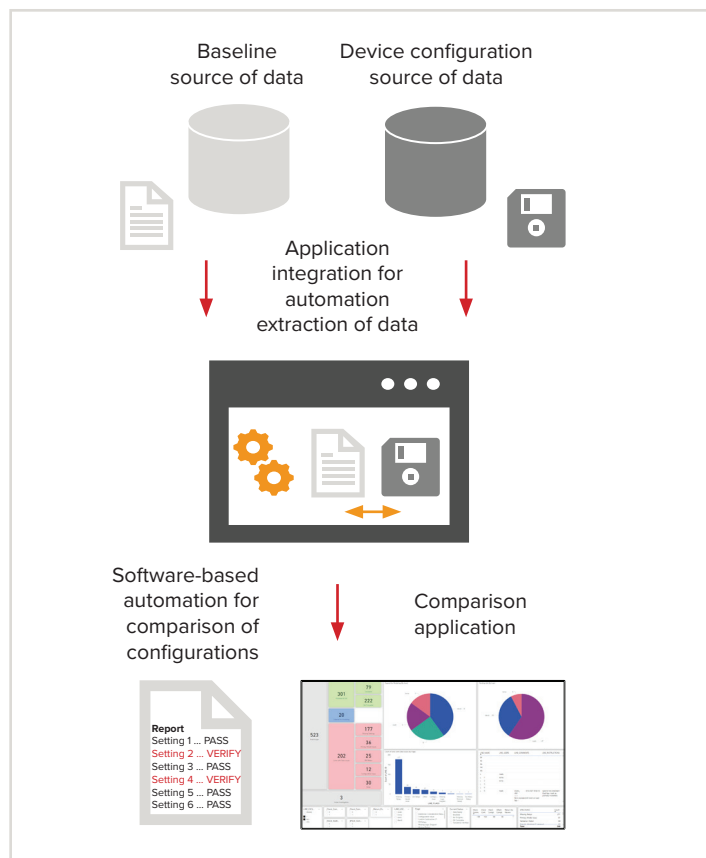
This scope typically covers enormous numbers of device configurations, especially for larger organizations. Our automated approach provides an easily repeatable method to evaluating large numbers of configurations, enabling engineers to efficiently meet their responsibilities under the CIP-010 standard.

The CIP-010 standard is broad, covering aspects that typically fall under the responsibilities of multiple departments within an organization. Our experts can help utilities navigate through the requirements of the standard and build the management and monitoring processes around the utility’s specific practices and philosophies. Protection and Control departments are typically responsible for the comparison of deployed device configurations against an expected baseline standard and the resolution of any identified deviations. Quanta Technology’s CIP-010 Module, part of the CORE® suite of automation tools, streamlines these processes through employment of data integration and automation to automatically connect to defined baseline and device configuration sources, extract the relevant data, and perform the comparison of applicable configuration fields. The results can be presented through rich visualization dashboards providing engineers with a range of flexible reporting options.

Our software solutions, including CIP-010, were developed to meet the needs of our utility partners and to integrate with existing practices and processes. The CIP-010 solution is used by multiple organizations for meeting ongoing compliance requirements and has provided dramatic improvements in efficiency and capability.

CORE® CIP-010 Solution Features

- Configured for each utility client to accommodate their own processes, data structures, protection practices and baseline philosophies, and approach for addressing deviations.
- Compatible with major industry-standard repository applications with flexibility in data formats, content, and evaluation criteria to support home-grown databases and utility-specific practices.
- Repeatability on demand, enabling engineers to efficiently compare large numbers of configurations on a regular basis.
- Providing multiple output options, including built-in interfaces to investigate and address deviations, report generation to serve as proof-of-compliance, and publication to rich visualization dashboards.

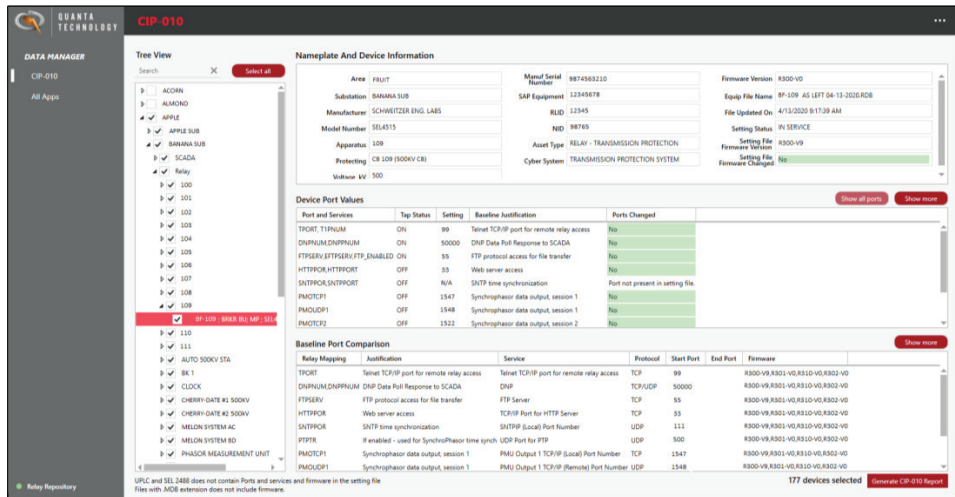


PICTURED: The CIP-010 solution enables large numbers of configurations to be compared efficiently, leveraging automation processes to obtain data, identify deviations, and output results

CONTACT US:

Flexible Reporting

The results of the configuration comparisons can be presented in several different manners depending on the preferences of the utility, ranging from built-in interfaces to filterable spreadsheet reports.



Summary Report
 95% 2022a Baselines for Logical Network Accessible Ports for Devices Without an Operating System
 Report generated on: 09/20/2022 02:13:31
 Effective date of 9/1/2021

RID	VOLTAGE	SUBSTATION	POSITION	RELAY TYPE	PORT CHANGE	COMPLIANCE (R1.1)	COMPLIANCE (R1.2)
17775	230	APPLE	TL 50025 SYS B	SEL-4111-1	YES	YES	VERIFY
15139	230	APPLE	TL 31041 SYS B	SEL-4114-4	YES	NO	YES
15142	230	BANANA	TL 31042 SYS B	SEL-4214-4	NO	YES	YES
15112	500	APPLE	TL 50025 SYS A	SEL-4215-5	NO	N/A	VERIFY
15155	500	APPLE	TL 50025 SYS A	SEL-4215-5	NO	YES	VERIFY
14830	230	BANANA	PMU	SEL-407E-4	YES	NO	VERIFY
14812	230	BANANA	TL 31041 SYS B	SEL-4114-4	YES	YES	YES
14465	230	BANANA	TL 31046 SYS B	SEL-4214-4	YES	NO	VERIFY
15454	230	BANANA	TL 31045 SYS B	SEL-4111-1	YES	YES	YES
13102	230	BANANA	TL 31051 SYS B	SEL-4212-2	YES	YES	VERIFY
25274	500	BANANA	500KV BAS A	SEL-3530	YES	N/A	VERIFY
15374	500	BANANA	500KV BAS B	SEL-3530	YES	N/A	VERIFY
12564	500	BANANA	TL 50017 SYS A	MACH-2	YES	N/A	VERIFY
12556	500	BANANA	TL 50017 SYS B	MACH-2	YES	N/A	VERIFY
14164	500	BANANA	TL 50028 SYS A	SEL-4215-5	YES	NO	VERIFY
13963	500	BANANA	TL 50025 SYS A	SEL-4215-5	YES	NO	VERIFY
18170	230	CHERRY	PMU	SEL-407E-4	YES	YES	VERIFY
18651	230	CHERRY	TRTU	SEL-3530	YES	N/A	VERIFY
13164	230	CHERRY	TL 31041 SYS A	SEL-4111-1	YES	YES	VERIFY
14811	230	CHERRY	TL 31041 SYS B	SEL-4214-4	YES	YES	VERIFY
13994	230	CHERRY	TL 31041 SYS B	SEL-4214-4	YES	YES	VERIFY
15046	230	CHERRY	TL 31041 SYS A	SEL-4111-1	YES	YES	VERIFY
13961	500	CHERRY	0001 SYS A (DET GAPS)	SEL-4215-5	N/A	YES	VERIFY
17862	230	DATE	TL 21061 SYS B	SEL-4111-1	YES	NO	VERIFY
17861	230	DATE	TL 21061 SYS A	SEL-4111-1	YES	NO	VERIFY
18019	500	ELDERBERRY	TL 50023 SYS A BAS B	SEL-4215-5	YES	NO	VERIFY
18018	500	ELDERBERRY	TL 50023 SYS A BAS A	SEL-4215-5	YES	NO	VERIFY

PICTURED: Report output options

Further Information

For more information, please visit our website to see a video demonstration.



CORE CIP-010 module for compliance evaluation

Compliance evaluation is part of a holistic digital transformation program.



Engineering Automation Drives Decision Making (2020 T&D World Magazine) Reprinted with permission from T&D World magazine.

Enjoy our publications covering CIP-010 evaluation:



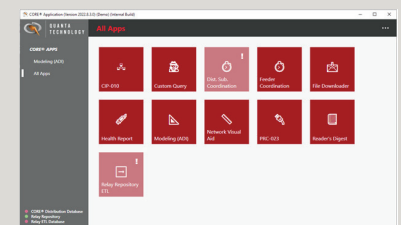
Development and Implementation of Practical Processes for NERC CIP-010 Compliance Evaluation (2022 Texas A&M Conference for Protective Relay Engineers)

CORE Suite

CIP-010 is a module within the CORE (Compliance, Operations, Reliability, Engineering) Suite of automation tools. CORE is Quanta Technology's platform for automation-based solutions to address data, simulation, evaluation, digital transformation, and report needs.

Modules within CORE can access the same libraries of protection logic functions, such as the Relay Catalog that enables interpretation of device configurations.

The CORE platform enables seamless sharing of data and integration of processes across modules and applications.



PICTURED: CORE is a unified platform for digital transformation applications

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