

Cybertech Automation helps industry build, configure, and commission instrumentation, electrical, and control system equipment.

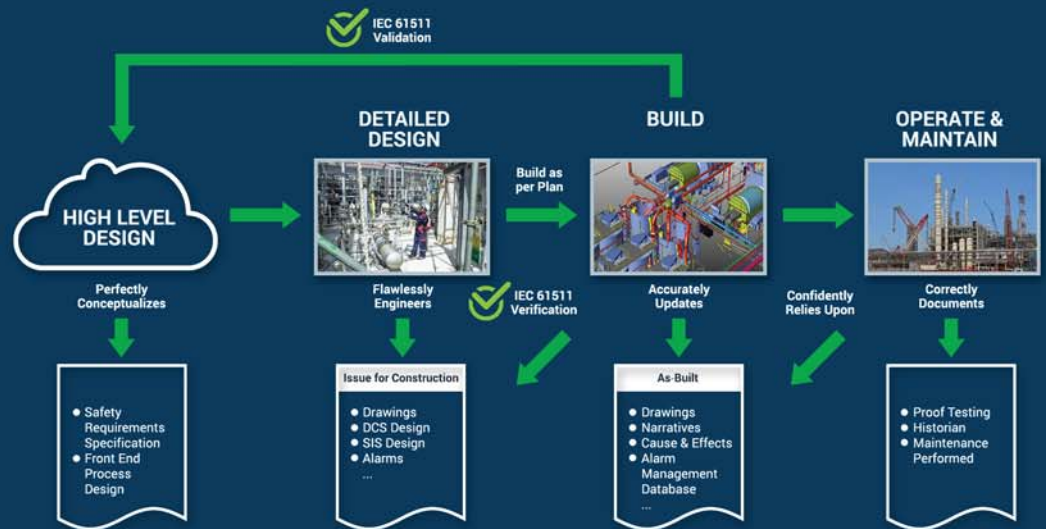
FIXING CONTROL AND SAFETY SYSTEMS GAPS

FIND OUT HOW CYBERTECH CAN AUTOMATICALLY RECONCILE MILLIONS OF YOUR PLANT RECORDS TO IDENTIFY HIGH-RISK MISALIGNMENTS BETWEEN YOUR CONTROL AND SAFETY SYSTEMS

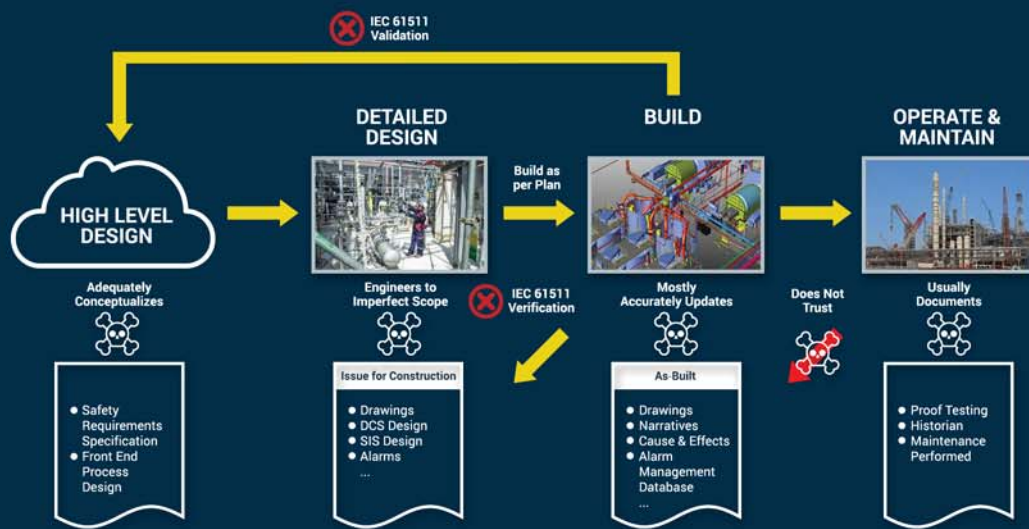
THE IDEAL

A typical industrial plant will have a safety system, a process control system, an enterprise resource planning system, years of historical operating data, a plethora of design and as-built drawings and numerous other repositories of plant data.

Safety and reliability are maximized when the plant is built in accordance with a well-engineered design and the various operating, management and documentation systems reflect the true as-built state of the plant. IEC 61511 verification and validation should validate that the system was built correctly.



THE REALITY



The alignment of design, build, as-built documentation, and operating systems is complicated by competing business priorities and the difficulty of change management in complicated facilities.

Major equipment, instrumentation and other assets are usually represented in many data repositories rather than just one. The more places the same data is held, the higher the risk the data will differ

Misalignments between systems (or between systems and documentation) contribute in varying degrees to inefficiencies, decreased safety of operations and decreased operating availability. In worst case scenarios, these misalignments are a root cause of incidents that harm people, environment or facilities.

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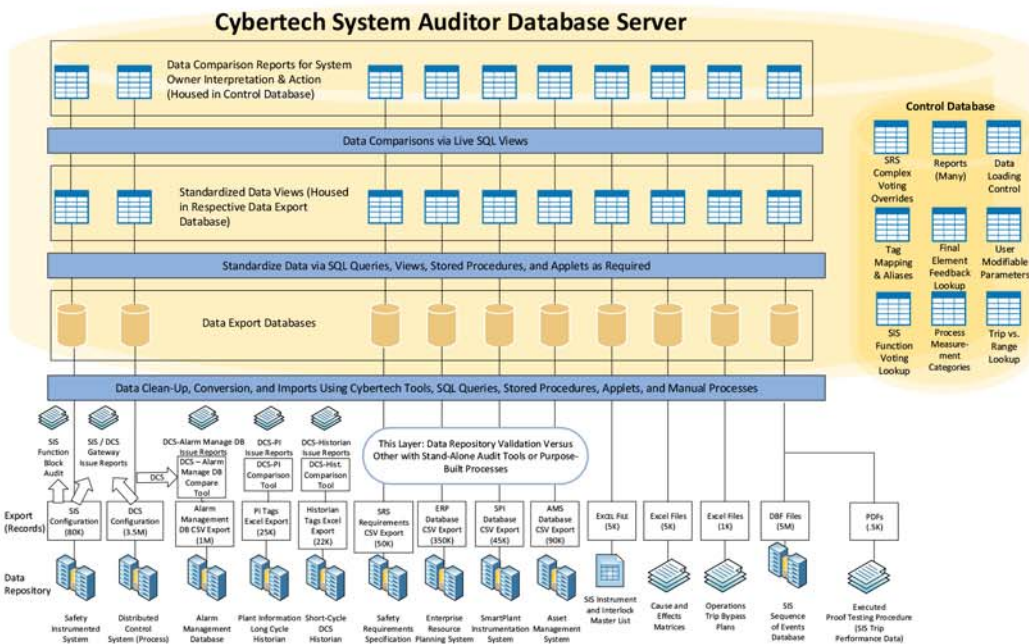
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CYBERTECH SYSTEM AUDITOR

THE SOLUTION

Cybertech developed the **Cybertech Process Control and Safety Instrumented System Auditor** to identify high-risk misalignments and provide sufficient guidance to each plant system owner to resolve material issues. Computerized data analytics are effective in mining the big data found in a typical process facility.

The Auditor accepts native data from plant systems, cleans up and standardizes the data with purpose-built C# data mining applications and SQL data manipulation. Tiered SQL views minimize data duplication and facilitate automatic updates when base native data changes (e.g. after a system owner advises that they have resolved identified issues).



THE CYBERTECH SYSTEM AUDITING PROCESS ENSURES THAT:

- Conflicting plant data is identified with priority assigned to the most reliable design or as-built data
- Site subject matter experts are routinely engaged to verify that the most correct data becomes master reference material
- All plant data is formatted/cleaned to allow better comparisons across systems (often using custom build data loading applications)
- Site-wide system tags become comparable - allowing the complex interaction of plant updates to be better tracked and understood

FEATURES AND SAMPLE APPLICATIONS

- Reconciling DCS and alarm management databases (identifying instrument tags in the DCS but not in the alarm database - and vice versa)
- Reconciling SIS and DCS gateways (cross inclusions and description matching)
- Ensuring overall DCS coherency (confirming expected block connections and alignment with configuration standards)
- Checking analog instrument saturation and alarm levels versus SIS configuration fault settings
- Aligning instrument ranges (ensuring calibration with the design range)
- Performing many of the SIS verification and validation steps required by IEC 61511



Contact Cybertech Automation to learn more about System Auditor - and how it might transform your overall view of plant operations and safety.

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