


CONFIDENTIAL CLIENT




PROJECT SAVINGS:
\$39,310 | 360 MAN HOURS

DC Cx APP FOR DATA CENTERS: A CUSTOM BUILT APPLICATION FOR COMMISSIONING

 Commissioning
& Qualification


 Building
Commissioning

 Asset Management
& Reliability


 Quality, Compliance,
& Regulatory

 Human
Performance

 Process &
Manufacturing Technology

 Program & Project
Management

 Automation &
Information Technology

 The Chemistry of Full-
Scale Operations™

 Data
Centers

WHEN YOU NEED TO MEET A HIGHER STANDARD™

THE CHALLENGE

The business of commissioning a data center goes well beyond ensuring processes, systems, or expansions meet the owner's requirements. In fact, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) asserts that the focus of data center commissioning is "verifying and documenting that the facility and all of its systems and assemblies are planned, designed, installed, tested, operated, and maintained to meet the needs of the owner."

To successfully commission a client's data center, CAI agents work through an exhaustive list of tasks for their clients and are involved every step of the way from predesign, design, construction, to ongoing maintenance. Previously, these tasks were completed using multiple Excel worksheets and siloed databases. There was no central process, no scalability option, and certainly no way to accurately collect, track, and store data for the entire process.

THE SOLUTION

CAI, powered by its tech partner CAI|Tech, developed an application called **DC Cx App** (also referred to as "the App" in this case study), to improve overall commissioning project performance. The App collects equipment detail and reporting data and initiates process workflows that reduce labor costs and improve project efficiencies. Thus, making the many facets of the complex commissioning process automated, reducing hours and errors. Using our advanced technology and commissioning expertise, we created a way to streamline workloads, automate processes, increase efficiencies, and improve revenue for our clients.

We designed customized features that:

- Centralized data collecting, storing, and analyzing
- Consistent issue/task resolution logging, tracking, and resolving
- Transparent and real-time documentation tracking, reviewing, and approval workflows
- Increased control on forecasting
- Decreased overall risks

CONTINUED ON BACK

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THE SPECS

- **Equipment Dashboard:** allows our agents to input testing updates in real time and submit completed testing packs for more timely QA/QC reviews.
- **QA/QC Review Module:** allows the team to review test results prior to submitting for client review; out of 700+ tags which were submitted to Client for review, only 5% received comment (average project with this client at 30%-40% prior to using the app).
- **Documentation Review Module (Tag Review Status):** Workflows initiate tasks for Cx team members to review/approve/comment on changes. This module, along with documentation benchmarks, helps the CAI team document and track the review process and reduce labor hours.
- **Script Tracking Module:** improves collaboration by allowing the team to communicate effectively during Standard Operating Procedures (SOP) and Scripts/Protocols development and provides visibility to the most current and approved scripts.

THE RESULTS

CAI was able to save the client \$39,310 and 360 total man hours. By defining these workflows based on in the field activity and re-creating them in the App, the team improved overall project performance by within 75% of the allocated time and with 70% less retesting due to errors.

Using CAI|Tech's proprietary low-code/no-code and existing business process knowledge, CAI was able to transform overbearing and highly manual workflows and information management processes into simplified centralized modules and dashboards that eliminate inefficiencies, unnecessary complexities and, extraneous job tasks.

Our client team reported the following critical immediate benefits:

- Reduced errors – up to 75% less post-delivery rework issues reported
- Improved communication – more than 6x faster to deliver daily reports to end client
- Real-time accuracy – up to 75% more accurate equipment tracking
- Automation, automation, automation – from issue and task tracking, daily reports, real-time communications, intuitive dashboards, documentation management and more, this App has it all when it comes to state-of-the-art commissioning agent software