



A/E/C Consulting, Forensics, Management

Architecture | Engineering | Construction | Environmental

Solving complex problems for the built
environment



**Healthcare Facilities
Management Society
of New Jersey**

Introduction

Who is CCA?

CCA's BAS Mission

Building Automation Services

Healthcare HVAC Control

What makes us different?

Who is CCA?

CCA, Construction Consulting Associates LLC

- Offices on East Coast – Licensed Professional Engineers across multiple states.
- Over 30 years in business
- Complete Evaluation, Design, Construction:
Engineers, Architects, Building Experts,
Construction & Project Managers
- Assessments – Building envelope, facades,
structural, civil, mechanical etc.
- Emergency Response – Root cause analysis
- Litigation Support - Qualified Expert Testimony

**SOLVING
COMPLEX PROBLEMS
FOR THE BUILT
ENVIRONMENT**

*TRUSTED ADVISORY FROM
PROBLEM TO SOLUTION*

CCA's BAS Mission

- Our goal is to provide vendor and product agnostic solutions that support our clients' needs and goals.
- An extension of customers engineering team when they need additional support.

We represent you!



Building Automation Services



**Engineering
& Software
Reviews**



**Energy
Savings & Cx**



**Owners
Project
Manager**



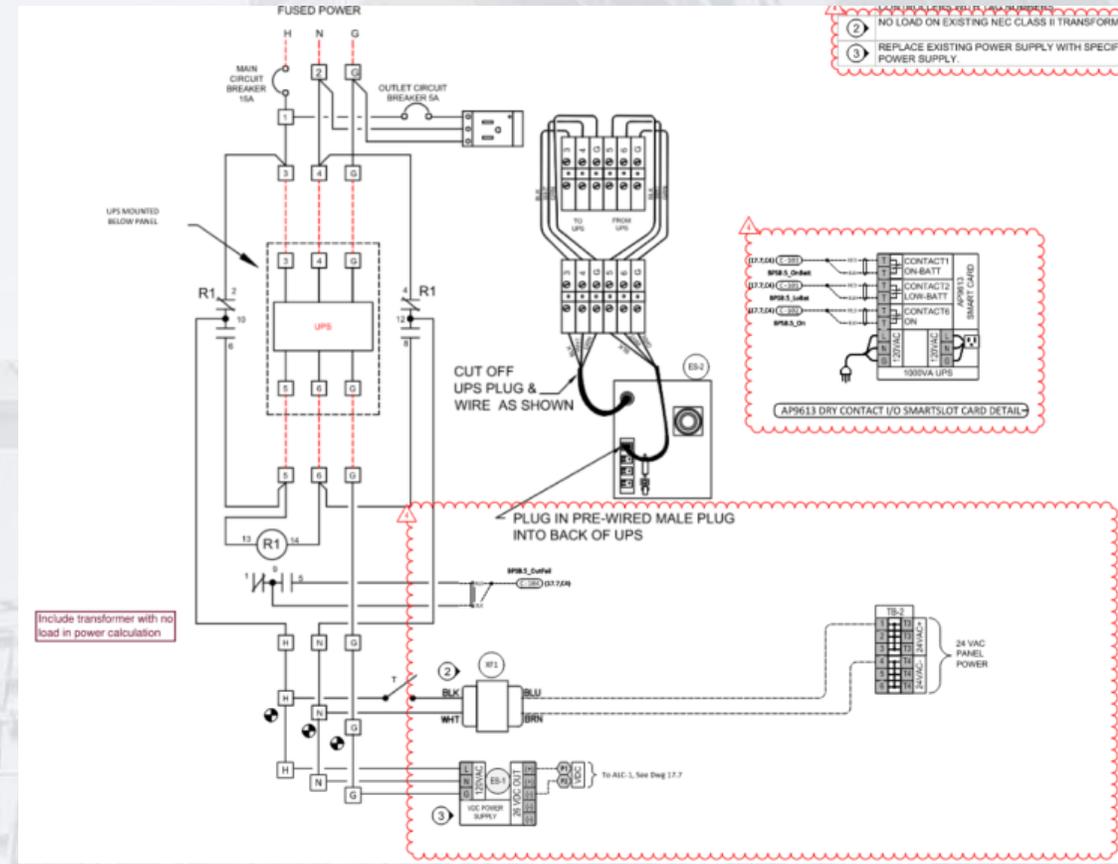
**Single
System
Overlay**



**OT
Security**

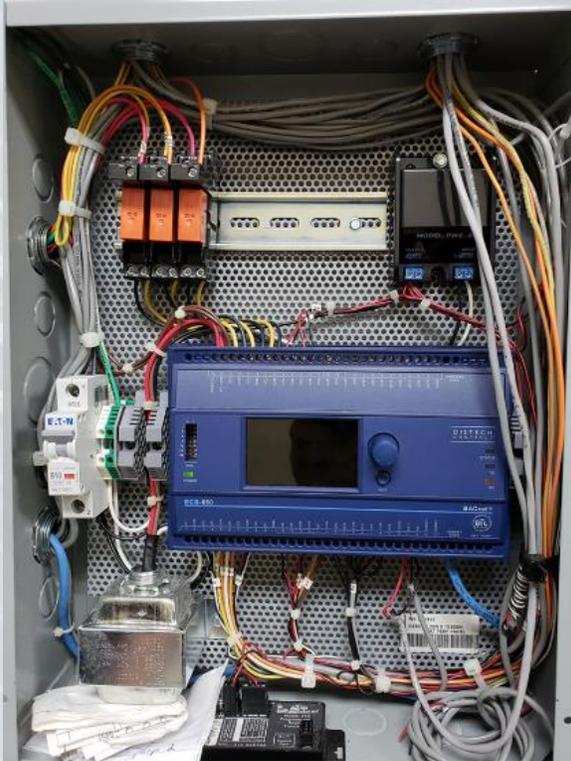
Engineering & Software

- Review system engineering or as-built documentation to ensure alignment with client standards.
- Work with customer to create standards if they do not exist. CCA will create standard points-list requirements, interlock wiring etc.
 - Graphics
 - Trending / historians
 - Scheduling
- Alarm rationalization, we will work with your team to get control of the alarm log.
- Redundancy requirements and back up power, N+1, back up data bases etc.



Energy Savings & Cx

- Traditional point to point Commissioning
- Digital Commissioning & Digital Retro Commissioning
- Sequence of operations reviews
- Identifying energy saving measures
- Creation of commission documents



Single System Overlay

- Provide a single solution to monitor and control all systems within a facility ex. Software and hardware upgrade paths and planning.
- Dealing with multiple vendors systems in one building.
- Dealing with only one vendor, single point of failure.



OT Security Planning

IT = Information Technology

- SQL
- Cloud
- Marketing data (CRM)
- Business data (ERP)
- HTTP Internet

OT = Operation Technology

- Internet of Things (IoT)
- Boilers/ Chillers/ AHU's
- SCADA
- BACnet/ Modbus/ Lon
- Electrical & Gas Meters

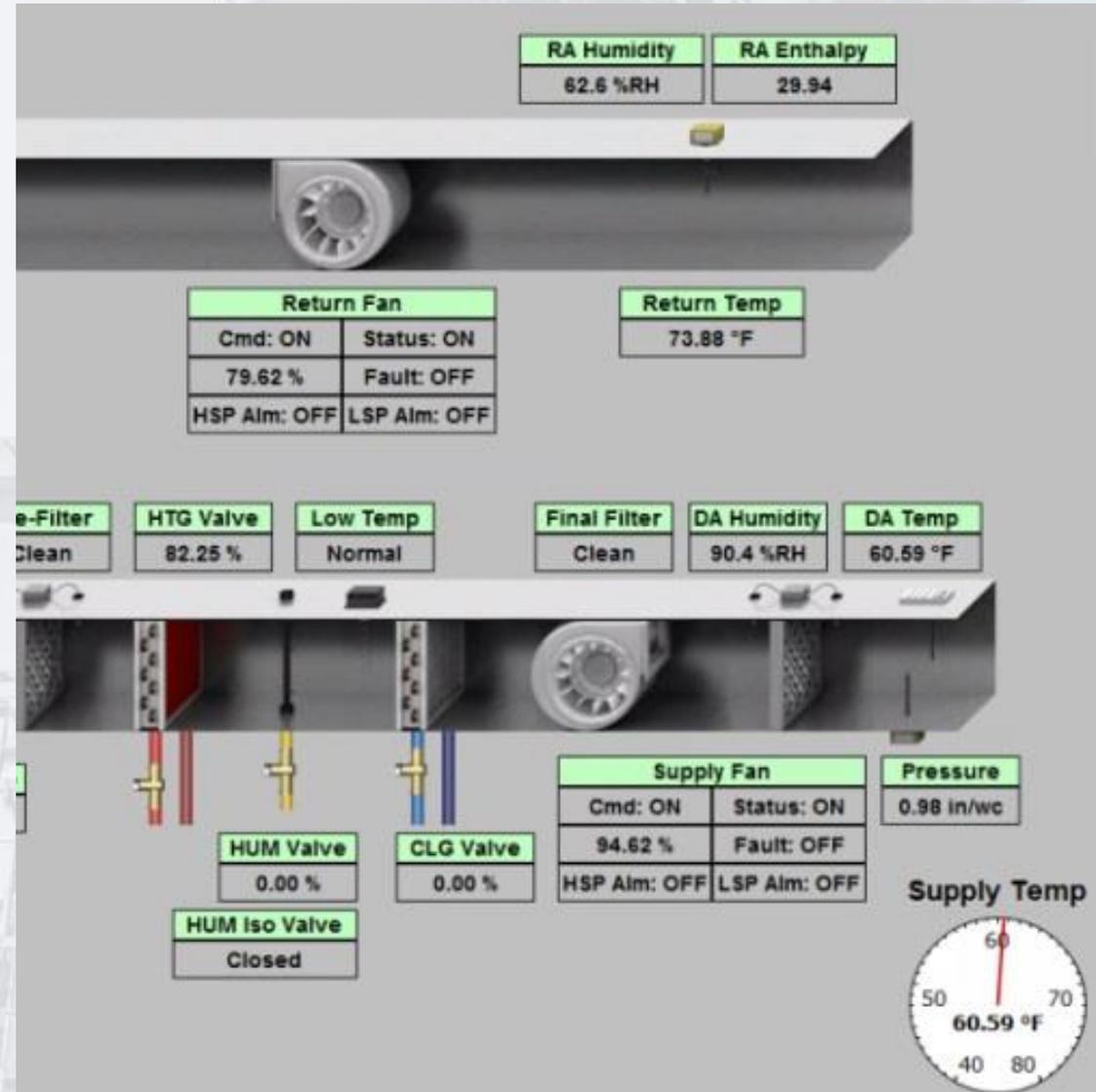
OT Risk Management

- Network Switches
- Outdated devices
- Open Ports
- File back ups
- Unlocked panels
- Wireless data



Healthcare HVAC Control

- Positive and negative room pressure control sequences ways to increase reliability.
- Healthcare minimum ventilation rates ASHRAE Standard 170
 - Post Pandemic ASHRAE Standard 241
 - IRMM- Infection Risk Management Mode
 - Requirements for equivalent clean airflow rate- CFM and fresh air intake changes
 - Requirements for use of filtration and air cleaning technology
 - Planning and Commissioning- Building Readiness Plan

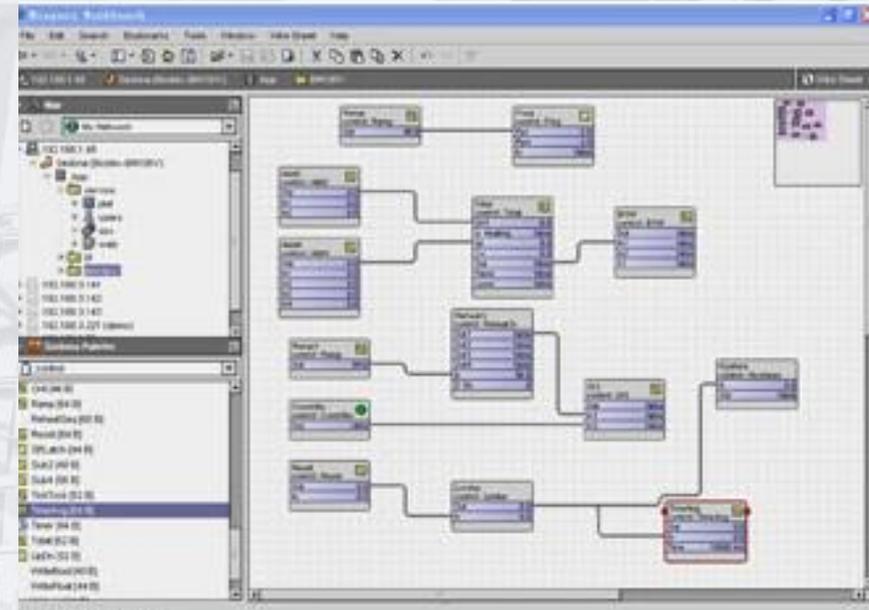


Why are we different?

Former system integrators, programmers and technicians.

- We are not interested in selling products.
- We are not a design engineering house.
- True neutral 3rd party

One stop shop for BMS, Architecture, Engineering and Construction assessment needs.



SUMMARY

- Product agnostic
- Digital commissioning
- Single system overlay
- Project management
- Energy auditing

Any building system, anywhere, anytime!

(Some of the products we serve)

Honeywell

SIEMENS



TRANE™

Johnson
Controls 

Schneider
Electric 

 **Delta**
CONTROLS

TRIDIUM

ABB

 **MITSUBISHI**
ELECTRIC

Question?



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www.ccaco.com

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