

How to add context to building data for stakeholder benefits

IT STARTS WITH A TRULY OPEN PLATFORM

Openly available and flexible solutions and communications protocols are key to help various stakeholders integrate across their systems to better manage a building's performance and life cycle.

VISIBILITY OF ACTIONABLE DATA

Visualization of key, actionable data for real-time access to critical information helps to speed up building insights and decision-making.

ABOUT HALF OF COMMERCIAL BUILDINGS ARE
5,000SF
IN SIZE OR SMALLER

NEARLY THREE-FOURTHS ARE
10,000SF
OR SMALLER¹

JUST 1 SYSTEM IN A BUILDING CAN HAVE HUNDREDS OF THOUSANDS OF DATA POINTS

JUST 1 BUILDING CAN HAVE NUMEROUS SYSTEMS THAT REQUIRE DATA INTEGRATION FROM HVAC, LIGHTING, METERING, SCHEDULING, TENANT BILLING AND ANALYTICAL SOFTWARE

MORE DATA IN THE CLOUD THE STEADY GROWTH OF CONNECTED IoT DEVICES IS ESTIMATED TO REACH **41.6BN** AND GENERATE **79.4ZB** OF DATA IN 2025²

DON'T GET LOST IN THE CLOUD CLUTTER

To make it valuable, actionable data must be tagged intelligently. Actionable data that features semantic tagging creates immediate and long-lasting value.



Because data affects every aspect of a building and its occupants, applying standardized tags to data points and devices is critical. This allows for predictive building maintenance and operations, and thus enhance system interoperability and data optimization.

DESIGO OPTIC'S OPEN ARCHITECTURE BRINGS ALL KEY PROTOCOL AND API DATA INTO ONE PLACE FOR GREATER BUILDING OPERATION VISIBILITY AND COMFORT



- **OPEN BY DESIGN**
Siemens' openly distributed, commercially open building automation system
- **EASY TO USE**
Fully commission and engineer from any hosted computer, tablet or mobile phone
- **POWERFUL COMMAND**
Features the latest FIN framework and full benefits of Haystack technology

GROW YOUR SYSTEM WITH YOUR BUILDING MORE EASILY WITH DESIGO OPTIC

START SMALL
1,000 POINTS
AND GROW
20,000 POINTS
OVER TIME

NO ADDITIONAL HARDWARE OR SYSTEM CHANGE OUTS REQUIRED

LEVERAGE MORE DATA INTEGRATION AND INCREASED TRENDING POWER USING THE SYSTEM HOST ID

UTILIZE THE CFG3.F100 EMBEDDED CONTROLLER FOR A MODULAR GROWTH APPROACH BY CREATING INSTANCES THAT CAN BE CONNECTED TO A LOCALIZED SERVER OVER HAYSTACK API.

STAKEHOLDER BENEFITS THROUGH SYSTEM INTEROPERABILITY BASED ON STANDARDIZED POINT TAGGING

BENEFITS FOR BUILDING OWNERS

- Enhanced interoperability between systems
- Faster project timelines resulting in on-budget costs
- Reduced risk when factoring in standardized data points upfront
- Easier, achievable optimal performance
- Longer-term success with actionable data and analytics tools

BENEFITS FOR SYSTEMS INTEGRATORS

- Improved access to building data
- Easier processes when servicing a site long-term
- Simpler commissioning of increasingly complex and smarter systems
- Reduced time spent on the job
- Streamlined access to building data during operations
- Provided ongoing value to their clients (i.e., building owners)



BENEFITS FOR FACILITY MANAGERS

- Streamline staff workloads
- Maintain operational efficiency while maintaining low OPEX costs
- Easily duplicate and deploy standardized tags for multiple campuses
- Quickly identify equipment or devices that need to be decommissioned and replaced
- Employ more predictive maintenance procedures (i.e., less "run-until-it-breaks" methodologies)

BENEFITS FOR ENGINEERS

- Added substance to vast amounts of data being brought into the building automation system (BAS)
- Aggregated critical data to ensure systems are meeting design
- Ability to provide a method of standardization regardless of vendor systems or equipment
- Consistent and sustainable deliverables

Digitalize your building management with Desigo Optic - truly open from top to bottom.



Learn more
usa.siemens.com/desigo-optic

References

1. 2015, "A Look at the U.S. Commercial Building Stock: Results from EIA's 2012 Commercial Buildings Energy Consumption Survey (CBECS)," The Commercial Buildings Energy Consumption Survey (CBECS) of the U.S. Energy Information Administration: <https://www.eia.gov/consumption/commercial/reports/2012/buildstock/#:~:text=Commercial%20buildings%20are%20often%20depicted,10%2C000%20square%20feet%20or%20smaller.>
2. June 18, 2019, "The Growth in Connected IoT Devices is Expected to Generate 79.4ZB of Data in 2025, According to a New IDC Forecast," IDC: <https://www.idc.com/getdoc.jsp?containerId=prUS45213219>