

**SIEMENS**

Cloudline Solutions leaps into  
the future of buildings  
with **Building X<sup>®</sup>**

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“When the average person walks into a building, they really have no idea the level of technology, the level of automation, that’s happening all around them,”

Tom Naylor, Owner and Founder of Cloudline Solutions.

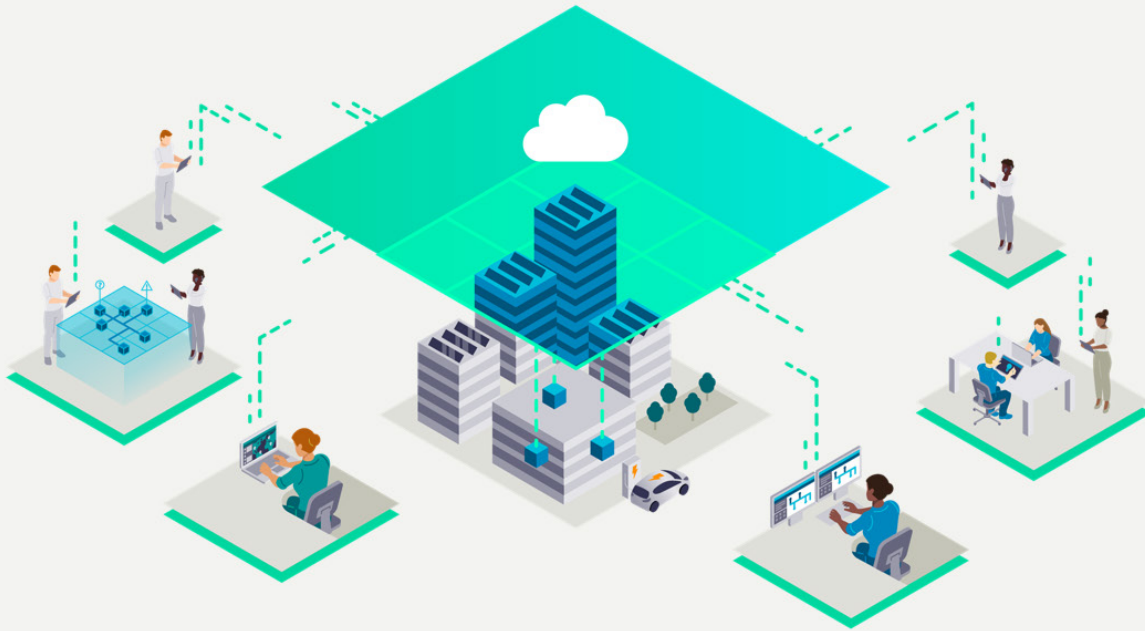


In today’s buildings, nearly every device and system generates and/or processes tremendous amounts of data, which can be analyzed to provide meaningful insights into building performance, security and fire concerns, energy efficiency, and so much more.

“There are boilers and chillers for comfort and sophisticated controls for lighting, building access, safety systems, and so much more, and they’re all basically invisible. Every millisecond,

you have something new happening within these systems. It’s an impressive operation,” Naylor notes.

Unlocking the power of data and capturing the full value of it can often be a challenge. That is, many building engineers simply don’t have the bandwidth to take in the massive amounts of information that come from a wide range of systems and vendors. That’s where Building X comes in.



**Advancing from reactive to predictive**

Building X is Siemens’ cloud-based open platform and AI-enabled suite of applications for smart buildings. It integrates all the building’s disparate data silos into one data lake, which building engineers can depend on as a single source of truth for the entire smart building experience.

Building X represents a sea change in the smart building space,” says Naylor. “Building automation systems are very mature. Building X changes everything because it allows all these processes and data – which were always churning away in the background of every building – to escape the building itself. It’s compelling.”

Today, the combination of cloud-based solutions, artificial intelligence, and open application platforms means that buildings are accelerating toward autonomy. Smart buildings with Building X platform will drive toward better productivity, sustainability, and occupant well-being.

**Native and ecosystem apps create tangible outcomes**

One key element of Building X is the growing collection of AI-enabled building applications. Siemens has developed a suite of apps that address critical building functions, including operations, energy management, and security – all of which are native to the Building X platform. At the same time,

Building X customers can access a library of third-party developed apps to customize their smart building experience.

For organizations like Naylor’s – that is, those that help customers navigate the dynamic and often complex cloud-based software environment – Building X APIs mean they can custom-create the apps that deliver exactly what a given building owner needs.

“Building X allows us to reconsider some of the building performance applications that we couldn’t deliver cost-effectively in the past. We feel passionately that these apps can deliver real economic value, and now we can consider developing them because the APIs are there with Building X,” Naylor explains.

In fact, Naylor believes incorporating custom-built apps into Building X represents a paradigm shift in the building automation industry. “For a smaller company like mine, it’s huge to be able to create a very specific application for the exact circumstances our customer has.”

Naylor expects that Clouline Solutions and other software developers will want to offer their custom apps and services through the Building X open APIs. These APIs enable access to various sets of building data and allow customers, developers, and solution



partners alike to create new applications based on their own needs and workflows.

“Once these products expose APIs, like Building X does, we’ll see an unstoppable ecosystem of developers in this type of marketplace. It’s too enticing for software companies like mine not to leverage this opportunity,” he notes.

#### **New opportunities for buildings of all sizes**

Another exciting part about Building X, according to Naylor, is the ability for buildings of all sizes, from the largest enterprise campuses to smaller commercial facilities, to benefit from smart building technologies.

“People go to restaurants, convenience stores, hair salons—the types of places where sophisticated building automation technology has traditionally been out of reach. Building X isn’t just more accessible to these smaller facilities; the platform can truly be tailored to the unique operating circumstances for each type of business,” he notes.

Naylor also describes how Building X can have a profound impact on building system maintenance.

Typically, if someone in the building complains of a room being too hot or too cold, and if the HVAC system does not respond to changes in setpoint, fixing the issue often requires a service technician to visit the site and investigate. But the Building X cloud-enabled apps provide the transparency and visibility into what’s happening with the HVAC system. “This way, the issue either can be addressed remotely, or a technician can be dispatched and arrive at the site fully prepared with the right parts, tools, etc.,” he says.

#### **A new and transformative smart building experience**

Ultimately, Building X breaks down traditional data silos to deliver the benefits of a truly smarter building in new and transformative ways. Naylor concludes: “Siemens has elevated IoT applications to first-class extensions of its product line via the Building X platform. Building X will set the new standard for customized, remote monitoring, and control applications for the foreseeable future.”

### **The pillars of Building X**

#### **AI-enabled applications**

Select from a growing suite of applications to customize the smart building experience. Leverage existing Siemens or third-party apps, or customers can develop their own apps using the growing portfolio of Building X APIs.

#### **Connectivity solutions**

Take your assets to the cloud securely with flexible, cyber-secure, vendor agnostic connectivity solutions that grow with the building and its needs.

#### **Open platform**

Break down silos and integrate data from devices and third-party sources into Building X as a single source of truth. Customers can expand their experience by developing their own applications thanks to this open platform approach.

**Legal Manufacturer**

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