

Case Study

GrydSense Case Study: GrydSense earns coveted UL Solutions Gold rating

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Safety. Science. Transformation.™

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In an era when smart building capabilities play an increasingly critical role, GrydSense uses an industry-first approach to help corporate real estate owners and large real estate investment trust (REIT) players manage their properties more efficiently and effectively. The innovative India-based company enables its clients to digitally transform their built environment while reducing their carbon footprint and providing a better experience for employees.

To expand brand awareness and substantiate the efficacy of their operation technology, GrydSense turned to a global safety science leader, UL Solutions, to earn third-party validation for their particular property technology product. UL Solutions then conducted an objective, science-based assessment of GrydSense using its Marketing Claim Verification (MCV) Smart Systems Rating Program. By applying six specific criteria, the assessment process comprehensively scrutinized the validity of specific advertising or promotional statements while providing valuable guideposts.

After conducting this analysis, UL Solutions verified that GrydSense is the first spatial system and sustainability offering to achieve the MCV program's prestigious Gold rating.

"The validation by UL Solutions was quite rewarding, and it also enabled us to take a deep look at our work and our progress," said Harish Kumar, founder and managing director of GrydSense. "The insight that UL Solutions

gave us essentially told us, 'Here's what industry expects, and here's what you have.' We focus very intently on creating the work, but when a third party looks at our features and asks, 'Have you done this?' or 'Have you done that?' it helps us see where we need to go to strengthen our products."

An expansive, cloud-based group of capabilities

GrydSense uses a pre-integrated, cloud-based software platform and a powerful suite of artificial intelligence (AI)-powered analytics in addition to gateways and AI/machine learning (ML)-based edge processing sensors and actuators. These wireless sensors work on Bluetooth® Mesh communication protocols, thus eliminating any crossed paths with information technology (IT) infrastructure and maximizing interoperability. The application tracks office occupancy to the desk level and provides analysis and recommendations, combining smart tools for space usage, lighting, ambience, occupant experience and energy management into one integrated package.

The system's real-time information tells operators when people are using which rooms, which floors are busy, how many people are in the office at a given time and where people are sitting. It also allows for lighting control and insight, telling operators which lights are working and how much energy they're consuming. Similarly, GrydSense provides relevant information about HVAC systems, such as where they're working (and where they're not), while also monitoring air quality throughout the building for CO2, PM, TVOC, temperature, humidity, noise and pressure levels. Closed-loop integrations with HVAC actuators help ensure that environmental deviations are autonomously corrected and reported.



CASE STUDY

Six precise measures for meticulous evaluations

UL Solutions created its smart systems MCV program in 2023 as a way to leverage a globally recognized brand to help elevate companies and institutions above their competitors and build credibility. The program helps differentiate and promote brands, and the UL Verified Mark helps customers create a premium offer and avoid market commoditization.

In assessing GrydSense's performance, the UL Solutions Smart System Rating Program used a rating system based on six dimensions:



Connectivity and interoperability

How well does the product engage with other information technology/operation technology (ITOT) systems? Can it be remotely monitored and configured, and can it communicate with other protocols and become part of the operating system?



Functional value

Can it provide custom reporting and key performance indicators (KPIs), and does it define certain goals for the building? Does it allow for easy enhancement to support evolving building needs?



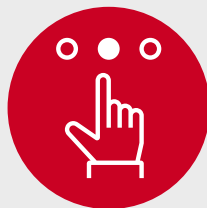
Resiliency

Does it feature software/hardware redundancy and a strategy for updates, and does it offer predictive and prescriptive maintenance? Will it be able to perform for several decades, or will it become obsolete quickly?



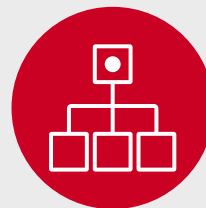
Cybersecurity

Does it use sophisticated encryption methods while transmitting, storing and retrieving data? Does it offer erasure of sensitive data during decommissioning and testing for unknown vulnerabilities?



Control and automation

Can users monitor key parameters across the system's connected devices and equipment? Does it have the ability to automatically adjust and override key parameters and set points?



Digital experience

How is its data stored, organized and modeled? Can it effectively capture and show information to the owner in an intuitive, user-friendly interface?



**Smart System
Verified
GOLD**



“As a trusted third-party resource, UL Solutions’ Smart System Rating Program helps shape the definition of what it means to be a smart product in the built environment,” said Elyse Hobson, senior product manager in Smart Ecosystems at UL Solutions. “The verified marketing claim can help create a competitive advantage and serve as a differentiating factor in this rapidly growing market.”

Kumar agrees, saying that working with UL Solutions gave GrydSense a level of credibility that has proven highly valuable. “It gives us a certain level of integrity to say we’ve been vetted by UL Solutions,” he says. Also, he said the information that UL Solutions examined has helped the company in its work: “We were bidding for a project, and they sent us 178 questions. When we scanned through them, we saw that about 80% of them had already been scrutinized by UL Solutions. So not only did we have deep insight into our product, but the effort told us where we need to improve and will help us strengthen the product.”



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