



Vates Smart Home: Beyond Home Automation

Summary

The Internet of Things (IoT) and its expanding ecosystem has become an increasingly crucial aspect of the IT industry, providing business solutions and improving people's lives. In Home Automation specifically, there are as many uses of IoT as can possibly be imagined, from being able to control locks, light switches and cameras inside a home with IoT home solutions, to more crucial tasks such as temperature control and monitoring loved ones with IoT security solutions. Vates® Smart Home supports connections between various sensors to a unique IoT Gateway, enabling the end user to gather data from these sensors as well as control them remotely. More importantly, while using the same platform, Vates® Smart Home proprietary technology can easily be adapted and applied to uses outside the home, namely for healthcare, manufacturing, energy consumption and other IoT business solutions.

Product Capabilities: Vates® Smart Home

Vates® Smart Home includes a set of out-of-the-box IoT solutions that can be implemented seamlessly; however, Vates® Smart Home can also effortlessly accommodate a client's unique integration needs. Most of the sensors utilize z-wave technology, but this technology is standardized with other IoT Gateways and sensors. Vates® Smart Home also allows the client to customize each IoT solution by using sensors from different manufacturers (Wemo or Fibaro, for example) and different wireless communication technologies (such as WiFi or Bluetooth) to easily integrate with the Vates® Smart Home platform. In addition, Vates® Smart Home technology can be integrated with different CRMs or ERPs.



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Home Comfort and Monitoring IoT Solutions

Vates® Smart Home measures energy consumption of homes and checks for telemetrics such as humidity levels or temperature, all in real time. This solution allows for a more efficient use of energy, while minimizing costs and helping the environment in the process. The technology works as follows: clamps are fastened to the main power cable of the home, measuring energy consumption in real time. These clamps are connected via z-wave technology to an IoT Gateway inside the home, which in turn uploads the data to the Cloud. The power company can then view energy consumption of that home in real time, and thus better regulate the distribution and generation of power. At the same time, the user has access to this information so they can view their consumption patterns and alter them if desired.

Further, Vates® Smart Home solutions for the Internet of Things allow the user to remotely control the lighting of their home or business via an app that connects directly to the IoT Gateway, which communicates directly with the lighting sensors. Each IoT Gateway uploads information to the Cloud, which is then accessible by a smartphone or computer.

Home Security and Prevention

Similar to an alarm system, Vates® Smart Home enables sensors in locks, windows and other areas in your home or office to trigger an alarm and immediately notify the user when movement is detected or a door or window is opened.

Vates® Smart Home also helps to determine whether a person inside the home has moved or left the house, which is particularly helpful in instances where young or elderly people are left alone, providing their caregiver or family information about the well-being of the home dweller. This can be complemented by the installation of cameras, which can provide an added layer of security and prevention. An anti-panic button can also be provided.



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Moreover, Vates® Smart Home IoT solutions offer sensors that can measure the CO levels in the air, potentially improving the air quality in a home, office or classroom and potentially preventing a catastrophic event.

Benefits of Choosing Vates® Smart Home

Flexibility

Vates® Smart Home is a versatile technology that adapts to the requirements of the client. by supporting robust integration of the platform of sensors from different manufacturers, and with distinct wireless communication technologies. Indeed, the flexibility of the Vates® Smart Home platform results in multiple solutions within the same hardware - which in turn enables remote troubleshooting, reducing time and logistics costs. It is also possible to use the same sensors with different IoT solutions, optimizing the use of the available hardware. As mentioned above, Vates® Smart Home technology can also be integrated with different CRMs or ERPs provided by the client.

Experience

Vates® Smart Home benefits from Vates's proven track record: a reputable IT and software development company with offices in four different locations around the world. Vates clients are leaders in industries that hold the highest standards, including petroleum, automotive, food, healthcare and aerospace. Vates is certified in ISO 9001/9003 and Level 5 CMMI.

Responsiveness

Responsiveness goes hand-in-hand with flexibility. The systems and frameworks allow Vates® Smart Home to remotely monitor and troubleshoot IoT issues and problems, enabling rapid responses during critical events. It utilizes agile frameworks and takes an iterative-based, incremental approach, which optimizes predictability and reduces risk during the development process. Because projects usually demand testing cycles with tight schedules, Scrum and Kanban methodologies are usually the best fit to drive these projects, which deliver successful results that exceed a client's expectations.



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Other IoT Business Solutions

Vates® Smart Home flexible architecture can be adapted to multiple IoT commercial uses, proving to be an effective tool in enhancing efficiency and security in a number of industries:

IoT Manufacturing Solutions

Workers can be monitored by installing sensors in their reconnaissance lenses and gear, allowing supervisors to manage their performance, know their location and provide instructions in real time.

IoT Transportation Solutions

By installing sensors in a loading truck, they can provide detailed information of the path of the truck by measuring height, speed, humidity, road vibrations, etc. and then recommend an alternative, more efficient route.

IoT Healthcare Solutions

Safety in hospitals and healthcare facilities can be greatly enhanced by tracking equipment and patients, providing information about where they have been, for how long and notify users if an asset has left the premises.

IoT Education Solutions

By using beacon bracelets, teachers and monitors can check if students, especially young children, are in the correct location.

Conclusion

Vates® Smart Home is built upon a framework that provides high levels of flexibility with an unusually quick response time. The technology can be adapted to the needs of the client while also providing a great deal of customization and information to the end user. Vates® Smart Home continues to develop solutions for the Internet of Things in response to the increasing demand that exists for solutions that are versatile, easy to manage and monitor, and are cost effective.

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