



NEWSLETTER ANULOM

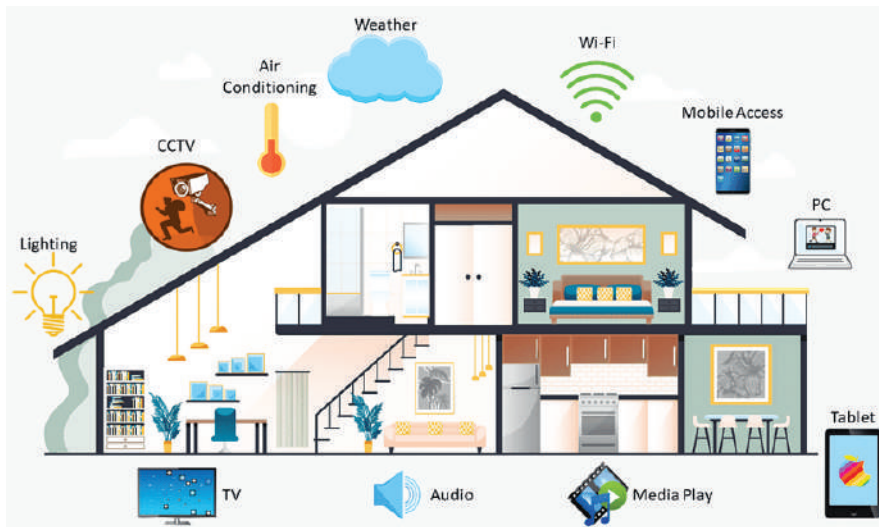
The official newsletter of ANULOM Technologies Pvt. Ltd. Pune

FEBRUARY 2024

Volume : 3 | Issue : 6

For Private Circulation only

WHAT IS CALLED SMART HOME?



A smart home means your home has a smart home system that connects with your appliances to automate specific tasks and is typically remotely controlled.

Home automation is building automation for a home. A home automation system will monitor and/or control home attributes such as lighting, climate, entertainment systems, and appliances. It may also include home security such as access control and alarm systems.

What is the aim of smart home?

Its objective is to improve the quality of life and convenience in the home, as well as residents' safety and security. Smart home applications also often ensure more efficient use of energy. What smart home applications are there?

What is Smart House explanation?

A smart home's devices are

connected with each other and can be accessed through one central point – a smartphone, tablet, laptop, or game console. Door locks, televisions, thermostats, home monitors, cameras, lights, and even appliances such as the refrigerator can be controlled through one home automation system.

Who invented smart homes?

ECHO IV marked the invention of the first actual smart home device. Invented by James Sutherland at Westinghouse Electric, the giant computer, made up of four cabinets, took up an entire room and weighed 800 pounds.

Where did smart home originate?

The history of the smart home goes back a long way, to the invention of remote control. The first example of remote control was demonstrated by Nikola Tesla



Editorial...

Dear Readers,

Welcome once again to a new issue of Anulom Newsletter.

This time also we have dealt with a new topic viz. 'Smart Home'. Hope you will certainly find it interesting and useful in your professional and personal life.

Please let us have your feedback on the Newsletter. You may also contribute an Article on the topic you feel would be helpful to all.

– Editor

in New York's Madison Square Garden in 1898.

Why is it called smart home?

The word "domotics" is a contraction of the Latin word for a home (domus) and the word robotics. The word "smart" in "smart home" refers to the system being aware of the state of its devices, which is done through the information and communication technologies (ICT) protocol and the Internet of Things (IoT).

What was the first smart home in the world?

During 1966-1967, although it was never commercially sold, the ECHO IV and the Kitchen Computer was the first smart device. This clever device could compute shopping lists, control

the home's temperature, and turn appliances on and off.

How many smart homes are there in India?

Currently, there are nearly 13 million smart homes in India and by 2025, an additional 12.84% penetration of smart home solutions is expected in the country.

The phrase **smart home** refers to home automation devices that have internet access. Home automation, a broader category, includes *any* device that can be monitored or controlled via wireless radio signals, not just those having internet access. When connected with the Internet, home sensors and activation devices are an important constituent of the Internet of Things ("IoT").

A home automation system typically connects controlled devices to a central smart home hub (sometimes called a "gateway"). The user interface for control of the system uses either wall-mounted terminals, tablet or desktop computers, a mobile phone application, or a Web interface that may also be accessible off-site through the Internet.

Early home automation began with labor-saving machines. Self-contained electric or gas powered home appliances became viable in the 1900s with the introduction of electric power distribution and led to the introduction of washing machines (1904), waterheaters (1889), refrigerators (1913), sewing machines, dishwashers, and clothes dryers.

In 1975, the first general purpose home automation network technology, X10, was developed. It is a communication protocol for electronic devices. It primarily uses electric power transmission wiring for signaling and control, where the signals involve brief radio frequency bursts of digital data, and remains the most widely available.

By 2012, in the United States, according to ABI Research, 1.5 million home automation systems were installed. Per research firm Statista more than 45 million smart home devices will be installed in U.S. homes by the end of the year 2018.

The word "*domotics*" is a contraction of the Latin word for a home (*domus*) and the word *robotics*.^[1] The word "smart" in "smart home" refers to the system being aware of the state of its devices, which is done through the information and communication technologies (ICT) protocol and the Internet of Things (IoT).

Home automation is prevalent in a variety of different realms, including:

- Heating, ventilation and air conditioning (HVAC): it is possible to have remote control of all home energy monitors over the internet incorporating a simple and friendly user interface.
- Lighting control system: a "smart" network that incorporates communication between various lighting system inputs and outputs, using one or more central computing devices.

- Occupancy-aware control system: it is possible to sense the occupancy of the home using smart meters and environmental sensors like CO₂ sensors, which can be integrated into the building automation system to trigger automatic responses for energy efficiency and building comfort applications.
- Appliance control and integration with the smart grid and a smart meter, taking advantage, for instance, of high solar panel output in the middle of the day to run washing machines.
- Home robots and security: a household security system integrated with a home automation system can provide additional services such as remote surveillance of security cameras over the Internet, or access control and central locking of all perimeter doors and windows.
- Leak detection, smoke, and CO detectors.
- Laundry-folding machine, self-making bed.
- Indoor positioning systems (IPS).
- Home automation for the elderly and disabled.
- Pet and baby care, for example tracking the pets and babies' movements and controlling pet access rights.
- Air quality control (inside and outside). For example, Air Quality Egg is used by people at home to monitor the air quality and pollution level in the city and create a map of the pollution.
- Smart kitchen, with refrigerator inventory, premade cooking programs, cooking surveillance, etc.
- Voice control devices like Amazon Alexa or Google Home used to control home appliances or systems.

When designing and creating a home automation system, engineers consider several factors including scalability, how well the devices can be monitored and controlled, ease of installation and use for the consumer, affordability, speed, security, and ability to diagnose issues.

Criticism and controversies

Customers may hesitate to bet their IoT future on proprietary software or hardware devices that use proprietary protocols that may fade or become difficult to customize and interconnect.

The nature of home automation devices can also be a problem for security, data security and data privacy, since patches to bugs found in the core operating system often do not reach users of older and lower-price devices.

The tenants renting from landlords who decide to upgrade units with smart home technology have raised a few concerns which include weak wireless connections that render the door or appliance unusable or impractical; the security of door passcodes kept by the landlord; and the potential invasion of privacy that comes with connecting smart home technologies to home networks.

Overall, this field is still evolving and the nature of

each device is constantly changing. While technologists work to create more secure, streamlined, and standardized security protocols, consumers also need to learn more about how these devices work and what the implications of putting them in their homes can be. The growth of this field is currently limited not only by technology but also by a user's ability to trust a device and integrate it successfully into his/her daily life.

Impact

Utilizing home automation could lead to more efficient and intelligent energy-saving techniques. By integrating information and communication technologies (ICT) with renewable energy systems such as solar power or wind power, homes can autonomously make decisions about whether to store energy or expend it for a given appliance, leading to overall positive environmental impacts and lower electricity bills for the consumers using the system.

While there are many competing vendors, there are increasing efforts towards open source systems. However, there are issues with the current state of home automation including a lack of standardized security measures and depreciation of older devices without backwards compatibility. Home automation has high potential for sharing data between family members or trusted individuals for personal security purposes and could lead to energy saving measures with a positive environmental impact in the future. The home automation market was worth US\$64 billion in 2022 and is projected to grow to over \$163 billion in 2028.

The future of Smart Homes holds even more possibilities, like AI-driven robotics and sustainable energy solutions. As these innovations unfold, homes will reflect human ingenuity's potential. Smart home systems shape our lives, promising a harmonious tech-integrated living environment.

स्फुरणिका...

सकारात्मक आणि नकारात्मक ऊर्जा...

अचानक व्हॉट्सअपवर एक व्हिडिओ आला आणि त्यात एक झाड, त्याच्या फांद्या आणि त्याही झाडाच्या निम्म्या बाजूच्या बहरलेल्या फळा-फुलांनी आणि दुसऱ्या बाजूच्या वाळलेल्या फांद्या दिसत होत्या. फळा-फुलांनी बहरलेल्या फांदीवर एक उडणारा पक्षी दिसत होता आणि त्याबाजूला 'सकारात्मक ऊर्जा' असे शब्द होते. वाळक्या फांद्यांच्या बाजूला 'नकारात्मक ऊर्जा' असे शब्द होते आणि त्या बाजूच्या झाडाखाली एक मरून पडलेला पक्षी दिसत होता.

व्हॉट्सअपचे मेसेजेस येतात, जातात. दिवसभर सारखे हे होतच असते; पण या व्हिडिओचे स्फुरणिकांमध्ये रूपांतर करावे असे माझ्या मनात आले; कारण, मला माझ्या वहीत या सकारात्मक आणि नकारात्मक ऊर्जा देणाऱ्या गोष्टींची नोंद ठेवायची होती आणि वेळ मिळेल तेव्हा-तेव्हा त्या वाचून त्यांची उजळणी करायची इच्छा होती. हा व्हिडिओ मी माझ्या 'चिंतन' या व्हॉट्सअप ग्रुपवर पाठवला आणि त्याची नोंद इतरांनीही अगत्याने घेतलेली दिसली.

आता या सकारात्मक आणि नकारात्मक ऊर्जा देणाऱ्या गोष्टींची पुढीलप्रमाणे नोंद घेऊ या :

(१) विश्वास, (२) प्रामाणिकपणा, (३) दानत, (४) प्रेम, (५) शांती, (६) दया, (७) प्रेरणा, (८) उत्साह, (९) कृतज्ञता, (१०) सहकार वृत्ती, (११) कार्यक्षमता, (१२) क्षमा, (१३) आनंद, (१४) प्रेरक, (१५) जबाबदार वृत्ती, (१६) धाडस, (१७) निःस्वार्थ, (१८) आत्मविश्वास, (१९) सृजनशीलता.

यामध्ये मला आणखी काही गोष्टी सुचल्या त्या अशा : (२०) प्रयोगशीलता, (२१) धैर्य, (२२) कौशल्य, (२३) चातुर्य, (२४) उत्पादकता, (२५) गुणग्राहकता, (२६) सहिष्णुता, (२७) संयम, (२८) विवेक, (२९) निर्भयता, (३०) बंधुभाव, (३१) ममत्व, (३२) सौजन्य, (३३) समाधान.

आता नकारात्मक ऊर्जा कोणत्या?

(१) दुःख, (२) हिंसा, (३) बेइमानी, (४) तक्रार, (५) आळस, (६) टाळाटाळ, (७) स्वार्थ, (८) निराशा, (९) चिंता, (१०) ताण, (११) लोभ, (१२) राज, (१३) मत्सर, (१४) पश्चाताप, (१५) भीती, (१६) संभ्रम, (१७) अज्ञान, (१८) उद्धटपणा, (१९) अनिश्चितता, (२०) बनावटपणा, (२१) उथळपणा, (२२) एकटेपणा, (२३) उतावीळपणा, (२४) अहंकार, (२५) आत्मकेंद्रित वृत्ती, (२६) उदासीनता, (२७) एकलकोंडेपणा, (२८) निरुपद्रवी कृती, (२९) घाई.

- डॉ. अरविंद नवरे

डायरेक्टर, अनुलोम टेक्नोलॉजीज प्रा. लि.

मोबाइल : ९५५२३८४९३१

कोर्टाची पायरी चढण्यापूर्वी...

दाव्यामध्ये विशिष्ट रकमेची मागणी केली असेल तर त्या रकमेनुसार किंवा पैशासाठी दावा नसेल तर दाव्याच्या विषयानुसार / प्रकारानुसार दाव्यासाठीची कोर्ट फी ठरते. तितक्या रकमेचे कोर्ट फी स्टॅप लावावे लागतात.

हे सर्व झाल्यावर अर्ज न्यायालयाच्या नियुक्त अधिकाऱ्यापुढे सादर करावा लागतो. प्रतिवादीला समन्स बजावण्यासाठीचा खर्च म्हणून प्रोसेस फी भरावी लागते. कार्यालयीन सेवक सांगतील तेवढी आणि तेव्हा ती फी भरावी.



FEEDBACK FROM OUR SATISFIED CUSTOMERS...

Excellent service... co-operative staff valuable employee heartfelt thank you to Sonal Alhat, Madhuri Paygude and Kaveri for the resolve problem.

— VAIBHAV GUJAR

It was an easy experience. Afsana made it convenient and acted very quickly.

— VISHAL SHETTI

It was an amazing experience, Sarika from Anulom team had really help us lots to resolve our query. Wishing her a successful carrier.

— RAJENDRA THAKUR

समन्समध्ये नेमलेल्या तारखेला प्रतिवादीने त्याचे म्हणणे उत्तरादाखल लेखी स्वरूपात न्यायालयात - न्यायालयीन अधिकाऱ्यापुढे सादर करायचे असते. त्याला 'रिटन स्टेटमेंट' (डब्ल्यू एस) असे म्हणतात. त्यानंतरच्या तारखेला कामकाज सुरू होते. या दाव्यात वादीची नेमकी समस्या काय आहे, कोणते प्रश्न न्यायालयाकडून सोडवले जाणे किंवा त्यावर निकाल देणे अपेक्षित आहे, हे प्रथम ठरवले जाते. त्यास 'इश्यूज फ्रेम करणे' असे म्हणतात. या पुढील कामकाज त्या आधारे चालते. नवीन प्रश्न मध्येच उपस्थित करता येत नाहीत.

इश्यूज निश्चित झाले की, साक्षीदारांच्या साक्षी, पुरावे, नंतर वकिलांचे युक्तीवाद आणि निकाल, असे प्रमुख टप्पे असतात. निकालाच्या अंमलबजावणीसाठी दरखास्तीचा टप्पा असतो. दरखास्तीसाठी छापिल, विहित नमुन्याचा अर्ज असतो. तो भरून दाखल करावा लागतो. दरखास्त संपली की, खटला संपला असे मानले जाते.

दरखास्तीच्या कामकाजात दावा अर्जातील मुद्दे व त्याच्याशी संबंधित नवे मुद्दे मांडावयाचे नसतात. फक्त 'अंमलबजावणी' एवढाच विषय चर्चेला असतो.

(क्रमशः)

— अॅड. अविनाश चाफेकर

मोबाइल : ९८५०९३५९११

Will Highly Recommend it to fellow Indians living abroad. Sujata from their team was selflessly involved in the entire process. Big thanks to her and the team.

— PRAGYA JOSHI

Excellent service, prompt follow up and very good communication!

Kiruthika has been most professional throughout the process! Kudos to her we could complete the process in just 20min.

— UMESH GAJENDRAGADKAR

I have got kind support from Anulom for NOI (Notice of intimation).

This process done very easy with help of Sarika Madam.

Thanks for Anulom team and Sarika Madam.

— SAGAR DINDE

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Designed by Amogh Arts, Pune, for and on behalf of Anulom Technologies Pvt. Ltd;

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