

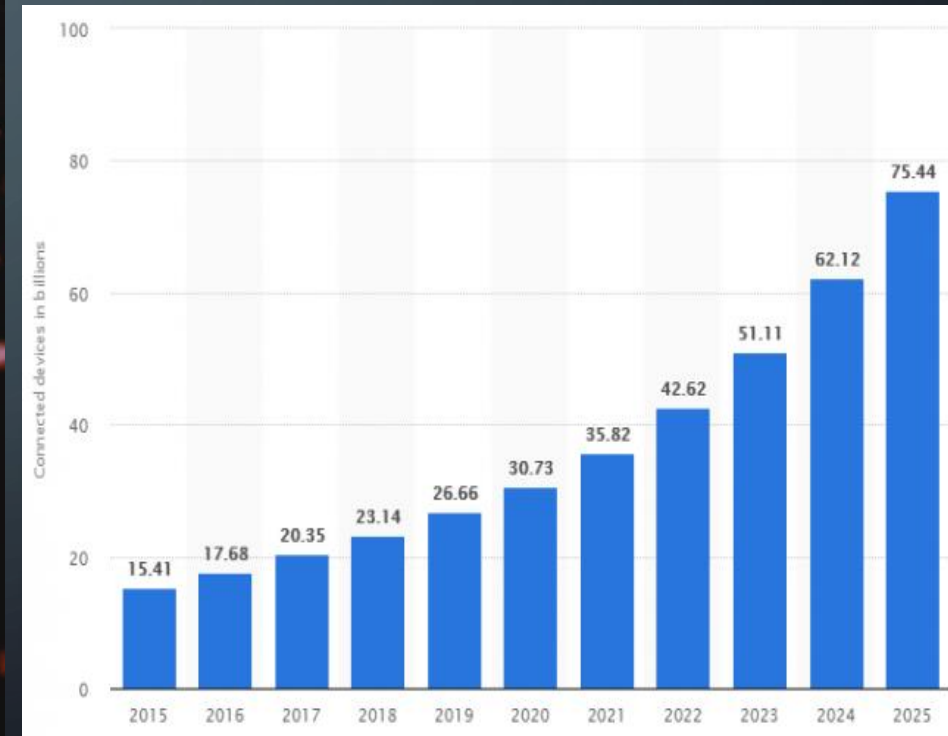


SMART AIR CONDITIONER

...IoT TRANSFORMS THE WAY USERS INTERACT WITH IT

Internet of Things (IoT) connected devices installed base worldwide from 2015 to 2025 (in billions)

'The installed base of Internet of Things devices is forecast to grow to almost **31 billion worldwide for 2020**. The overall Internet of Things market is projected to be worth more than one billion U.S. dollars annually from 2017 onwards.'

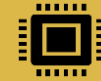


- Source "[Statista](#)"

IOT COMPONENTS



INTERNET



H/W/
PROCESSOR

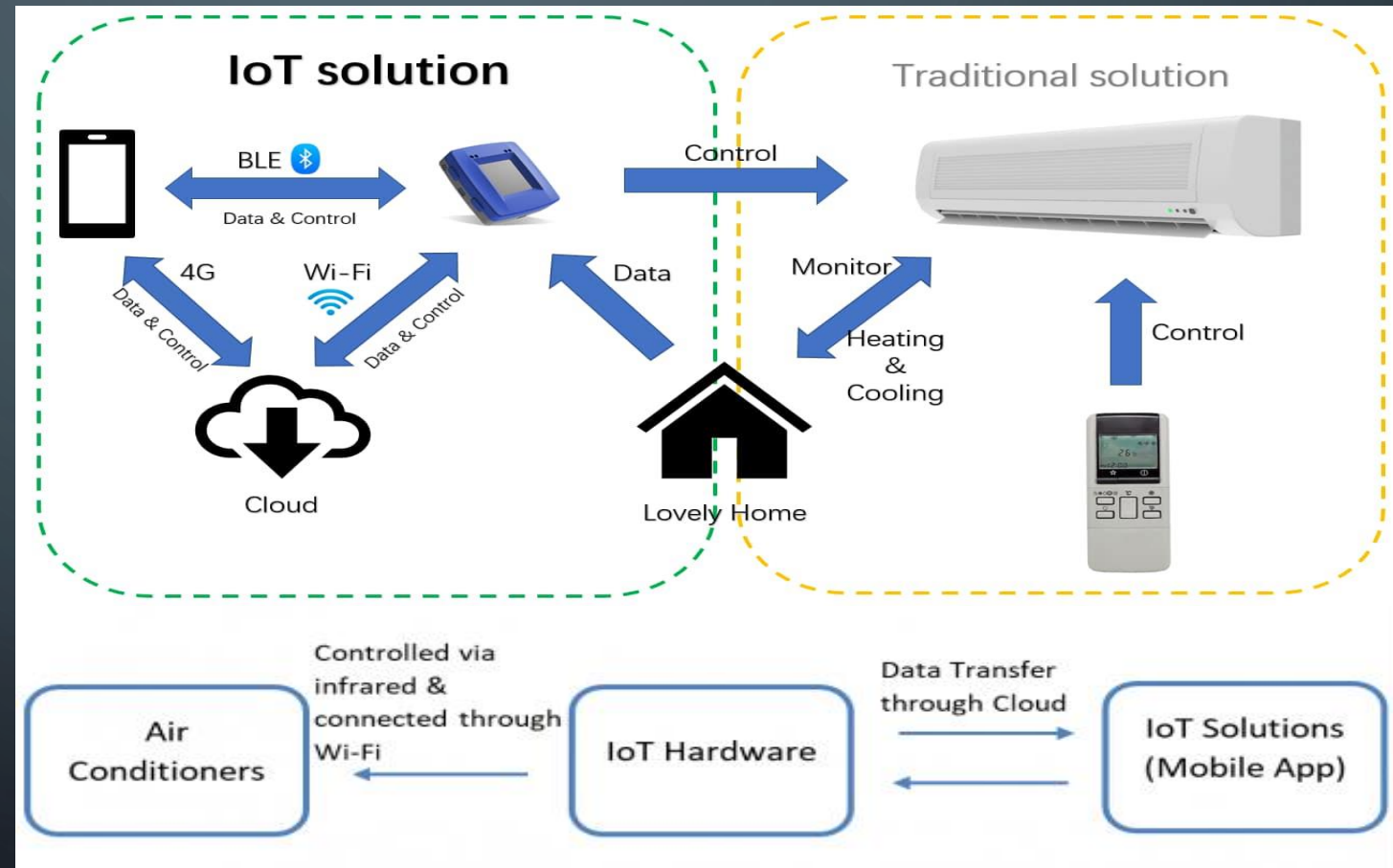


CLOUD



MOBILE APP
Connectivity

IOT VS TRADITIONAL SOLUTION



Physical, Smart and Connected Components

WHAT ARE THE PRODUCT CAPABILITIES...?

- IoT solutions help people to manage the temperature of their home by operating air conditioner from a remote location using the smartphone. With the smart air conditioner, users can get the benefit of **“Operating AC from faraway locations”**
- To enable users with this flexibility, **air conditioner requires integration** of a hardware (IoT enabled device) and a software (IoT solutions).
- Seamless integration amongst AC, hardware and mobile app allows for **flawless data transfer and synchronization** in order to control the appliance accurately.
- Air conditioner will be connected with IoT hardware through Wi-Fi. The hardware controls the air conditioner via infrared just like a remote. Data transfer between hardware and mobile app takes place through internet connection using Cloud technology.

Automated AC On and Off will be possible by integrating GPS based features. Define the geographical range of your smartphone. Now, whenever the device enters and exits a defined geographical boundary, the hardware interacts with the AC via Wi-Fi to On and Off the appliance respectively. Using cloud technology, it is possible to allow users to change the settings of an air conditioner from mobile app only.

WHY SHOULD I GO FOR IT...?

Remote Controlling: Users can On and Off the AC as well as change the settings from a faraway location using the IoT enabled mobile application. They can change the settings of AC like target temperature, fan speed & mode through their smartphone.

Maximum Comfort: Enjoy the extreme comfort by adjusting AC temperature before you reach home. Utilizing geofencing features, the app allows users to On and Off the AC when they enter and exit the home. With the help of connected devices and IoT solutions, you have the comfort to increase or decrease the cooling of AC remotely.

Smart Scheduling: Apply personalized scheduling by adjusting different temperatures for different times of the day as per your needs.

Cost Efficiency: Enabling users with automated On and Off facilities as well as smart scheduling, IoT solutions help people to save up to 40% of the AC billing.

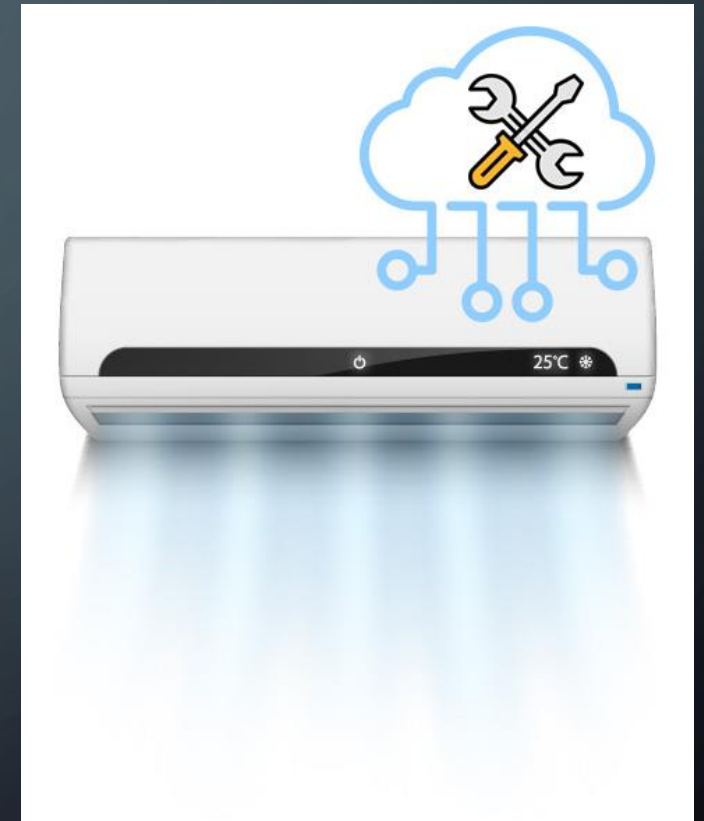
Multi-zone Support: You can control all the AC of your home using the single IoT enabled mobile app. Connect your air conditioners with IoT hardware to leverage independent multi-zone control through a single mobile app.

Smart air conditioners enable end customers with the numerous benefits in terms of facility and money. Especially when people have no time to maintain the different amenities of the home, technologies like IoT allow them to operate the various appliances on the go through end-to-end automation.

HOW ITS INTERESTING AMONG OTHERS...?

Diagnose the machines remotely & bring down your operational expenses by adopting IoT Air Conditioner Solutions

- ✓ Know about the machine breakdown status in real time & reduce the delay in the event of machine breakdown embracing IoT Air Conditioner solutions
- ✓ It also helps you in dispatching the technicians with the background information related to the breakdown
- ✓ Continuous monitoring of the machines with pre-defined error codes using IOT Air Conditioner solutions
- ✓ Get your customers' usage trend. Information on usage patterns helps in optimizing business models, processes, improving sales campaigns; thus improving topline & bottom-line
- ✓ Contain your operational expenses by undertaking regular maintenance activities
- ✓ Bring your machine's downtime lower by remotely diagnosing the machine



HOW ITS INTERESTING AMONG OTHERS...?

IoT improves your machine's maintenance cost while lowering your streamlining your maintenance processes

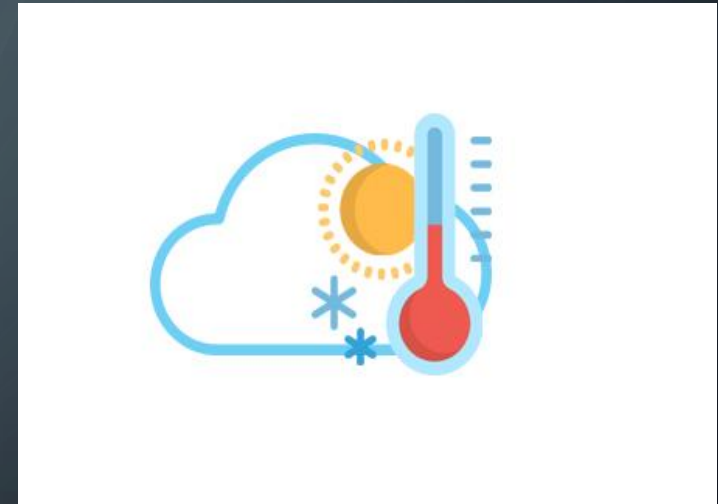


- ✓ IoT predictive maintenance facilitates pre-emptive maintenance workflow processes, so that you can improve the machine efficiency
- ✓ It also ensure minimal breakdown, ultimately reducing your capital expenditure
- ✓ Get access to the usage trends and identify the machine's performance issues
- ✓ Receive service alerts at the regular intervals from IoT predictive maintenance solutions
- ✓ Well maintained machines consume less electricity; thus it reduces your electricity costs
- ✓ Increase your workforce productivity by sending technicians with the prior information related to the breakdown with the help of IoT predictive maintenance solutions

HOW ITS INTERESTING AMONG OTHERS...?

Maintain the ambient environment inside the premises to increase the machine's longevity & efficiency with IoT Solutions

- ✓ Certain equipment's, such as ATM's, Printers, Chemical Plants & Heavy Machinery require a consistent temperature settings so that they remain highly productive
- ✓ Ambient temperature can be achieved by IOT Air Conditioner solutions
- ✓ Ambient temperature will increase your machine's life expectancy
- ✓ IOT Air Conditioner solutions help you in tracking ambient temperature that will ensure little maintenance cost for your machine which would reduce your operational expenses
- ✓ Consistent temperature ensures a lower downtime for your machines, which contribute towards increase in topline
- ✓ Machines operating under ambient temperature remain highly productive, from which your business can deliver better customer experience



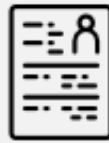
WHERE IT FITS IN OUR BUSINESS NEEDS...?

IOT Air Conditioner Solutions are designed & developed according to your business needs & processes



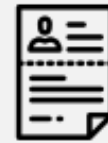
Lower Downtime

Self monitoring of equipments



Pre Defined Error Codes

Know the reason behind breakdown



Workforce Productivity

Dispatch the team with all information
Related to the breakdown



Lower Operational Expenses

Remote diagnosis



Prior Information of Breakdown

High visibility of equipment health



Over the air Update

Stay updated with latest features



THANK YOU

REFERENCES:

[HTTPS://WWW.IOTCENTRAL.IO/BLOG/IOT-TRANSFORMS-THE-WAY-USERS-INTERACT-WITH-SMART-AIR-CONDITIONERS](https://www.iotcentral.io/blog/iot-transforms-the-way-users-interact-with-smart-air-conditioners)

[HTTPS://WWW.CREDECYS.COM/IOT-BASED-SMART-AIR-CONDITIONER-SOLUTION/](https://www.credencys.com/iot-based-smart-air-conditioner-solution/)