

## IOT and Industrial IOT

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Smart, intelligent, small, potable, easy to carry and what not we are expecting all these things from our devices that we are using in our day today life. Starting from our alarm clock that starts our day to the phone that we have made a part of life, everything we need is – SMART.

What actually makes our devices smart? Sensors, actuators and internet, in short IOT devices making life easy. The concept of making physical objects smart by using sensors and intelligence was discussed way back in 1980s.

IOT is all about making physical objects smarter embedding sensors, software and other technologies. With the term IOT other term has come up IIOT. The IOT stands for Internet Of Things and the IIOT is for the Industrial Internet Of Things. Both the concept uses the same characters that is internet, connected, availability and easy to use. The only difference that makes between these two terms is their usage.

The IOT is used for the general purpose for the people with the consumers view point and the IIOT is used by the industries making use of more sophisticated systems. Let's consider the following points to clear the difference between the IOT and IIOT.

### Usage

The IOT is used by the consumers that make their life easy and convenient. IOT and the devices are integrated into the daily life of consumers. Such as:

- Smart watches
- Smart glasses
- Hear able ( Google pixel buds)

The IOT devices are setting trends in the market just because of their usage potential.

On the other hand, IIOT is used in industries with much more accurate sensors and the high level of sensitivity. The location detecting technologies providing more control and analytics features.

### Development and design

The IOT devices are more focused on the consumers, they are more likely designed to interact with the consumers and work according to their needs for example, smart home using IOT includes smart kitchen appliances and security devices that can make out intruders on the various parameters like biometric.

IIOT, designs are more complex providing the clean glass to the industry for the production, more precise and performs analytics in the manufacturing and supply chain.

### Area of implementation

IOT devices implementation area covers the consumers since the failure of the devices doesn't make any major issues. The breakdown doesn't create a picture of emergency for the users although they are playing the vital role in the consumers life as well.

IIOT, is much more complex and implementation of IIOT is the important industries such as aerospace, defence and health care. The failure of devices can create the emergency situations and even can have a life threatening zone.

Hence, the IOT and IIOT are more or less same only the line that creates between the two are their usage, design and implementation

both are covering the different parts of the market and making the work as easy to do task.

The exciting wave of IOT will be more interesting to watch as the environment of human and interactive machines will be created. Real time conversations with machines using AI, MI, what a scenario it will be.