Internet of Things

The Internet of Things (IoT) is a collection of interconnected devices that are connected to a network and/or to one another and exchange data with no human-machine interaction. The Internet of Things (IoT) is a collection of electronic gadgets that can communicate with one another, smart homes, medical monitoring devices, wearable fitness trackers, smart city infrastructures, and vehicle telematics are just a few examples.

They use different technical communications models in IoT deployments, each with its unique set of features. Device-to-Device, Device-to-Cloud, Device-to-Gateway, and Back-End Data-Sharing are four popular communication modes outlined by the Internet Architecture Board. Cellular, satellite, Wi-Fi, Bluetooth, low-power wide-area networks (LPWAN) or connecting to the internet through ethernet are all options for connecting sensors/devices to the cloud. Then there are the cables and network hardware devices, such as switches make up the physical components. The frames and data transmitted (bit rate) by and across a network are the logical components of the network, routes are paths for sending packets through the Internet network to an address on another network, and the source and destination of a network are two normally different places. Networks can be divided into three categories. The geographic range covered by each network type is one of its distinctive features: LANs often cover a small geographic region, such as the area within an office building. MANs cover a larger geographical region than LANs, such as a city's territory. WANs, for example, encompass a large geographic area and span many states or nations.

**References**

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