

Distinguish, differentiate, compare and explain what is the main difference between M2M and IoT communication networks. Comparison and Differences.

Difference between M2M and IoT Communication

1. Machine to Machine i.e. [M2M](#) is a point-to-point communication usually embedded within hardware at the customer site. In internet of things i.e. IoT, devices communicate using IP networks, incorporating with varying communication protocols.
2. In M2M communication, many devices use cellular or wired networks. In IoT, data delivery is relayed through a middle layer hosted in the cloud.
3. In M2M communication, devices do not necessarily rely on the internet connection. In IoT, in the majority of cases, devices require an active internet connection.
4. M2M communication has limited integration options, as devices must have corresponding communication standards. IoT has unlimited integration options, but it requires a solution that can manage all of the communications.

IoT and M2M Definitions

Communication between computers started with the Electronic Data Interchange that made direct communication possible between two PCs. All the computers connected to the Internet can talk to each other. Use of mobile phones for connecting internet has revolutionized the entire scenario. With Internet of Things the communication is extended via Internet among all the things that surround us.

Internet of Things



At the first look, it may appear that Machine-to-Machine (M2M) communications and IoT denote the same thing. In reality, M2M is only a subset of IoT. IoT is a more encompassing phenomenon because it also includes Human-to-Machine communication (H2M). Radio Frequency Identification (RFID), Location-Based Services (LBS), Lab-on-a-Chip (LOC), sensors, Augmented Reality (AR), robotics and vehicle telematics, which are some of the technology innovations that employ both M2M and H2M communications. Their common feature is to combine embedded sensory objects with communication intelligence and transporting data over a mix of wired and wireless networks.

M2M Communications Definition

On a very simple terms, The communication among the physical things which do not need human intervention.