

# Day was first used by haas in his

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Day by day activities is to send data one destination to other destination.

Li-Fi technology has another benefits over Wi-Fi, for example safer for nuclear energy-producing station, thermal energy-producing station in that places Wi-Fi are not used. 1. Some energy-producing station in which RF wave, s is injurious and it may reason of disaster. The way of communication in such stations only visible light spectrum can be used. There are four working methods of Li-Fi and Wi-Fi are, Efficiency, availability, capacity and security. Wi-Fi and Li-Fi technology both uses the electromagnetic spectrum for communication, but Wi-Fi uses radio wave, s spectrum. 2. (The working of existing wireless network that attach us to the internet. working slow when linked to several devices.

As the number of devices increases and also internet speed increases, that the bandwidth available makes it more and more difficult to enjoy high data transfer rates for a secure network. As a radio waves are just a small part of spectrum.) Solution of this problem is by working on Li-Fi technology. Li-Fi is a data transmission through by taking the fiber out of fiber optics by sending data through an LED light bulb 3 that make the faster speed as compare to human eye can follow. Li-Fi is the term of fast and cheap wireless communication system, which is advanced version of Wi-Fi. Li-Fi using visible light instead of Gigahertz radio waves for data transfer. Fig.

1. Li-Fi bulb 3. This idea of Li-Fi was proposed by a German physicist, Harald Hass, which he concluded to as ? data through illumination. This technology Li-Fi was first used by Haas in his TED Global talk on Visible Light Communication. According to Hass, the light, which he concluded that the D-

Light, can be used to producedata rates higher than 10 megabits per second which is more as more faster than our average broadband connection<sup>4</sup>.

Li-Fi can relieving the heavy loads which the current wireless systemsface. LIFI offers much larger frequency band (300 THz) compared to thatavailable in RF communications (300GHz). As more data coming through thevisible light spectrum could concerns that the electromagnetic waves affect ourhealth. Li-Fi can be new technology asfor future where data forlaptop, mobiles and tablets will betransmit through the light in a room. Security cannot be the issue because if you cannot see the light, you cannot access the data.

As a result, it can be usedin high security military areas.