



BLUETOOTH TECHNOLOGY

PROS & CONS



PROS

- Wireless:

Bluetooth technology enables wireless communication between devices over short distances, making it more convenient for consumers.

PROS

- Low power consumption:

Bluetooth technology is made to use relatively little power, making it a reliable method of wireless communication between devices without quickly emptying the battery.

PROS

- Widely used:

Bluetooth technology is widely used and supported by a huge variety of devices, including mobile phones, tablets, laptops, headphones, and other consumer electronics, indicating that it is compatible with a large number of products on the market

PROS

- Easy to use:

The majority of people can access Bluetooth technology since it is comparatively simple to use and set up.

CONS

- Limited range:

Bluetooth technology has a range of 10 meters or less, thus devices must be close to one another in order to communicate.

CONS

- Interference:

Other wireless transmissions, like Wi-Fi, can interfere with Bluetooth signals, which can lead to connectivity problems.

CONS

- Security:

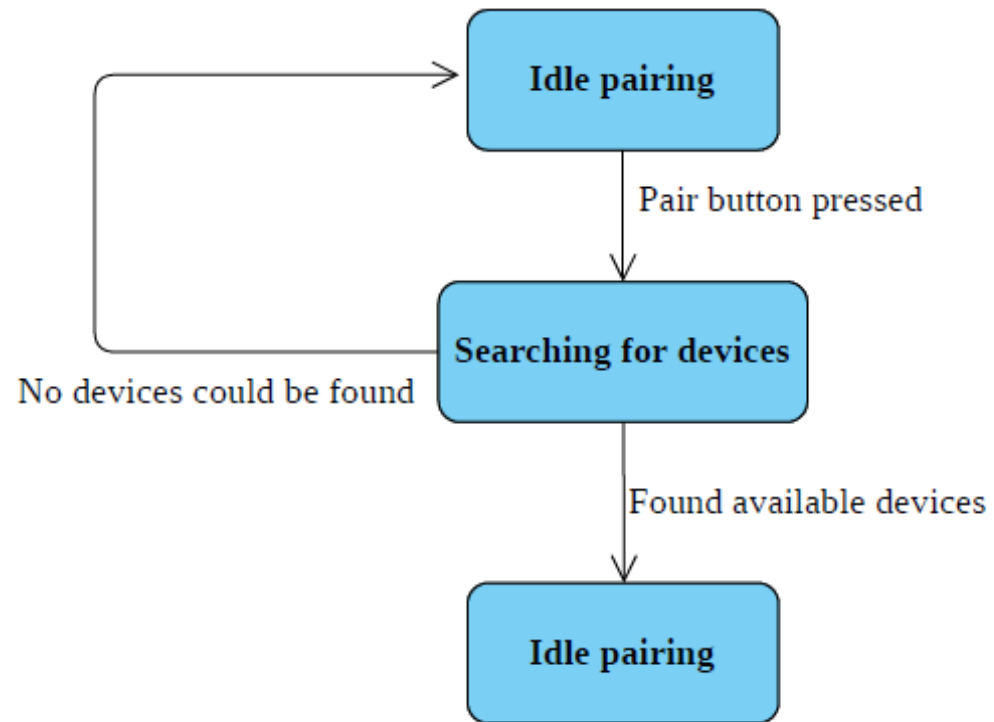
Bluetooth technology has historically had some security flaws that could endanger user data and equipment.

CONS

- Audio quality:

Due to compression and latency difficulties, Bluetooth audio quality cannot be as excellent as traditional connections.

STATE MACHINE DIAGRAM



REFERENCES

[1] Bisdikian, C., “An overview of the Bluetooth wireless technology,” *IEEE Commun. Mag.*, vol. 39, no. 12, pp. 86–94, 2001.