Bluebooth , 802. 15,1

- . Adopted the bluetooth MAC and Pty spear.
- · Raye < 10 m
- · dasa 1 Mbps
- · Mot for heavy traffic loads
- , BNED

-> Bluebooth Netwoonly Encapsulation Publical

- Ethenuet alike envinoument.
- Supports all types of Ethennet communication
- Headen compuemions
- Packet filtering

Why?

- Allows all verwonk proboses (IPUM, V6, ...)
- Peen-to-peen (wo 11/3)
- Me. Use all webwony apps.
- ton _
- solution similar to 802.11

> Bluetooth 4.0: low Energy

Use cases: puoximity, time, emergency, seusons, network analiabelity,...

BLE has same application awas as zigber (low bandwidth, average /low latency data, not video, data, voice, avais, only state)

What is it?

- Open, short nayse nadio technology, blanky sheet of paper design, different to Bluetooth classic, optimized for ultra low power, enables coin cell battery use cases.
- All optimized for lowest power cowninption (shout packets, less RF channels, single puotocol, etc)
- Designed to send small chun 45 of oota (exposing state)

\rightarrow BLE and GAP

- GAP (Generic access pur file) defines a profile all Bluebooth devices implement. Also defines procedures for device discovery, limb establishment, management and termination and initiation of security features.

^ ^

- Gap layer has our of four wells:

busadasten - non-connectable adventisen Observer - scaws for adventisements but oben't juitates connection

periphense -> adventisen connectable and can openate as slave in a single liny Coyen connection.

central - scaw for ads and stants comection, operates as master.

> Discoverable modes:

non-docoverable - wo ads

limited - discoverable -ad & for a Rimited ammount of time before relining to standay. general discoverable - ands continuousley.

-> Blt and GAP: Paining

Initialed by either device.

Both generale and exchange Short term Vieys to dearypt packets.

Either can request bonding to weak long term

whatis aships.