-> Pensoual memorus

- No physicall access to abled we known to us weld for large communication rates, low ast. songets: low power, low wort, snort-rouge, small number of devices.

-> B webooth

- Oniginally for uplacing 'UBB', not Ethernet.
- PAIN > 1 1/bps comedions, provet nouting, sync and async, voice convedious,
- Small, cheap, low power, short nauge nadios.
- Marten / slave coufig and schooling.

Ly Bluetooth Highen Speed).

EDR- Enhanced Data Make: BT V2.0 -> 31/6/2 H5- High Speed: BT 3.0 H5- 24 Maps but datas does not go over the BT Link itself id uses 802.11.

by Features

2.46Hz worldwide, airplane freedly, pionets and scateruets, 2006/s, frequency hopping.

> signal buocdcast over seemigles nandom senies of frequencys. Receiven waps

beducen fugs. With transmitter:

L> Provets

- Bluebook devices coureded in ad-hor cell.
- Master with up to 7 slaves (active) and hundreds parties. Master defines clock and duiciD.
 - Each picouet has an unique FH pattern.

L> Scalennet

- Comedion of several products through common bridge.
 - Oue device can be M/3 at some time
 - product BW (1 Mbps

-> Picouet Operation

All devices must ohave the same happing pattern If device in product and not connected then must be in standay.

Active - 3bits, Pontier - 8 bits)

△ Estados de dispositivos bluetooth.

5 tandby -> waiting to join product Inquire - ask about nadius to comect Page -> connect to a specific nadio Connected -> actively on a picouet (master, on slave) Panulsnelf Hold -> low power connected very low power waves up thou 7 slaves periodically to periodically to waves up periodically to waves up periodically to waves up periodically to manter, for defined in snift intends. In she waves we wave sleeps to manter, for defined in snift intends. We wavel to wavel to wavel. No do unpanh

Comection procedure Device 2 Device 1 (src, master) (dest, slave) In inquiry scan state (1) Inquiny Packet (2) In inquiry Repose state (3) Inquire Response (4) Paging (5) taging Paging ruply (6) FHJ Packet (7) Second neply (B) Slave sync with maden (9) Inital poll(10) Connection reply to poll (11) Puocolore Connection mode (12)

La Inquiry Scaming: summary

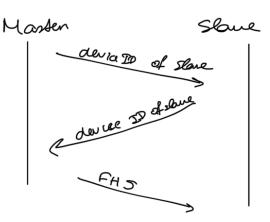
Inquiry scarning has a common address and Levices can page this odoners. All machines hearing am inquiry will answer the inquiry negrest. There is a detection (connection nit) in the slaves that detects inquirys.

nit) in the slaves that detects inquirys. If there is a collision on ausevening to a soon, they also want a random period.

Lo Paging

Very similar to inquire. Still have not sync clocks on freqs. Establishes actual product connections (6 step to connect).

FH5 packet: contains device ID and close (from master).



-> Bluetooth stack

App support
Control Interface (Host)

Link Manager and Layer 2 CPP Radio and Baseband Control

- Raais layer

Defines nonmements for Bluetowth realist translever (2.4642 band, specs for Spiness-Spechium Frequency Mopping, classfy Levices).

Frame includes two packets

\rightarrow Baseband

Manages physicall channels and logical lives Works dissely with link controller. Baseband packet:

code	header 1	poylood
∠		data
chamel access		
wal , all a		
acan code,		
inquiny acon code.		

- -> link planager: cannies out link setup with authentication, link configuration
- -> lim layer control: link control publical, connection ownerted and connectionless data to upper

layer.

-> HCI: allows command line access to baseband layer and LM for control.

> rhoddlewome:

Senice Descovery Publocal (SIP) publices are a way for apps to detect which senvices are available and characteristics.

4 Publocal question (-> auswer

. Photocol neusege (ains to nuse olden pue tocals)

-> Puo files and security

-> Interoperability: Profiles

Profile: bore for BJ interoperability, ventical cut in BT Stock, a given wage model. Each BT device supports one one more profiles.

-> Security

Wels: mode 1 -1 no security

mode 2 -1 Security out source level

mode 3 -1 security at eight level

Mechairms, first frequency hoping, low

nameje, wi..., cypnen, pin oue snowe vieys.

Link Vieys in a promet: one generated via PIV entry, afferent for each poin of Levices, outh, permanent stonage of verys.