S-MAC Sleep MAC is a CONTENTION BASED MAC protocol that tries to reduce energy waste accepting a reduction in terms of performance with a periodic listen and sleep cycle (to also overcome the IDLE historing) Each node goes into a PERIODIC SLEEP in which the radio is turned off and set a timer to wake up and listen to other nodes. All the nodes have their own SCHEDULE, but meighboring nodes one SONCHROUZED to have a common schedule. How? With SUNC packets and a schedule table. NOTE -> In a longe net there is NO GUARANTEE that all nodes follow the same schedule (node on border ->2) To avoid collisions this protocol uses RTS/CTS and performs corrier sense before transmit peckets SMAC consumes much less energy then 802-11 like protocols V IDLE LISTENING rorely hoppered X Redundant dota

Flot Routing Protocol 3 main co tegories: 1) PROACTIVE PROTOCOLS -> Always trees to montain its routing alote update whether or not there is currently need to deliver packets - Respond to ony changes in network topology Very fost X High Consulption - DSDV: Destination Sequence Distout Vector 2) REACTIVE PROTOCOLS -> The route is determined only if it is needed. V ders overhead X Slower then proactive Different types of reactive protocols: • FLOODING -> copies of incoming packets are sent by every link (except the one who send)

Delivery packet is guaranteed, but duplicated usuages are sent. • GOSSIPING -> moder send incoming pockets to a rondomly selected neighbour. Very slow propegation

• Dynamic Source Routing -> Each olde pecket contain the complete route of made it will traverse whit 2 mechanism: ROUTE DISCOVERY and ROUTE MANTENENCE · Ad Hoc On Demond Distance Routing -> Some idea of DSR but modes montain Routing TABLES instead of source routing 3) HYBRID PROTOCLS GEOGRAPHIC ROUTING Protocol that chose the next hop besed on a geographic location STRATERY -> Send to the neighbour who makes the greatest progress towards the destination V Soue more onergy X Problem of DEAD-END