

Indian Statistical Institute, Kolkata

Presentation: **Zone Routing Protocol**

Department: Cryptology and Security

Sem: 2nd , Course: Computing System II

Group: 06

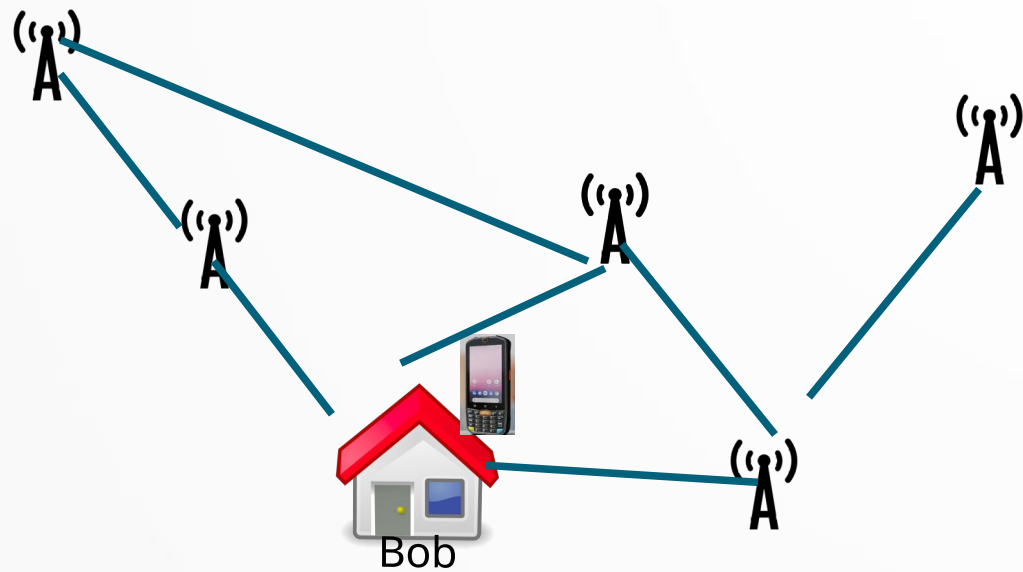
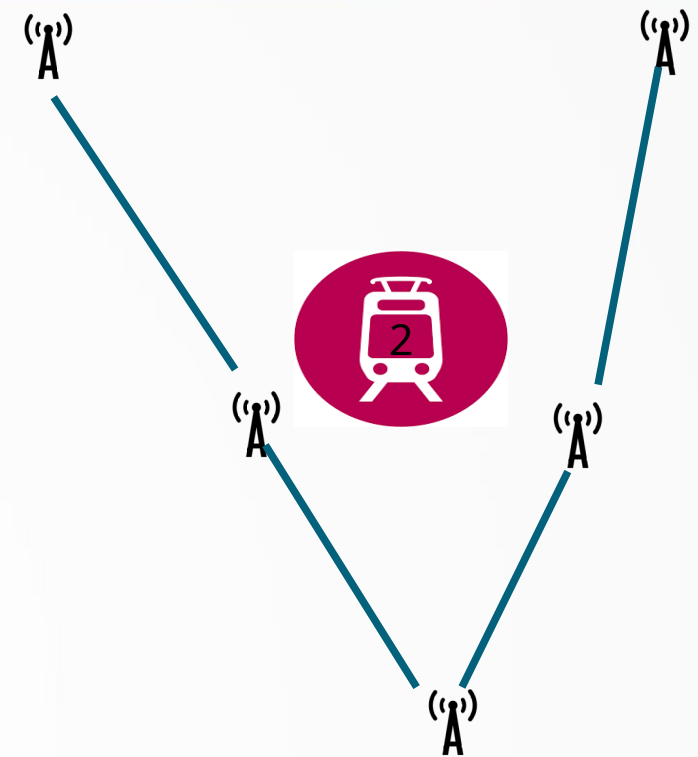
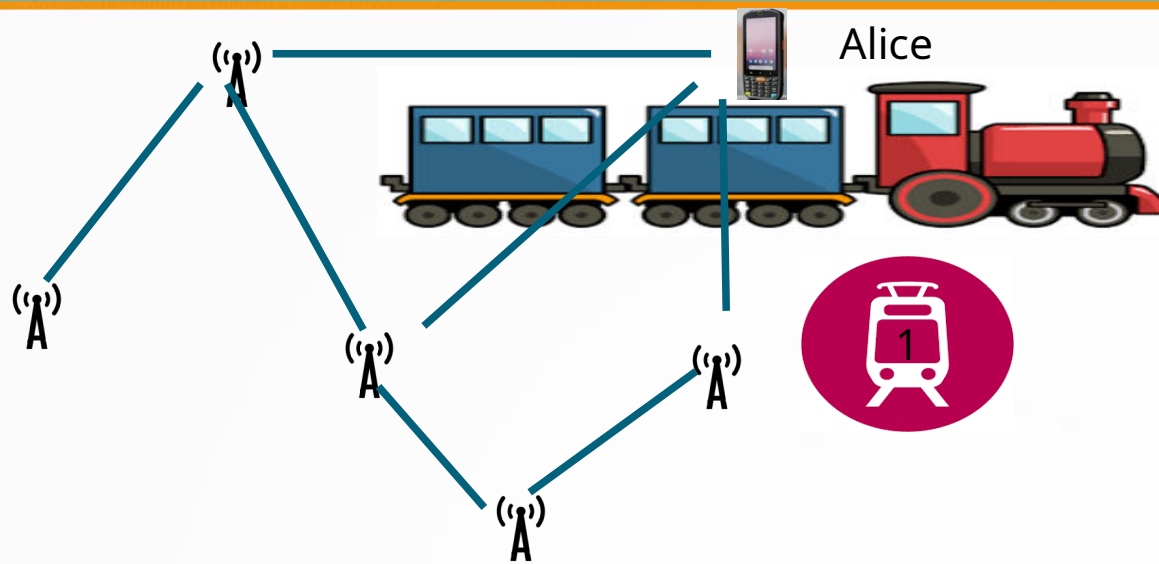
Group Members:

POUSALI DEY (crs2023)

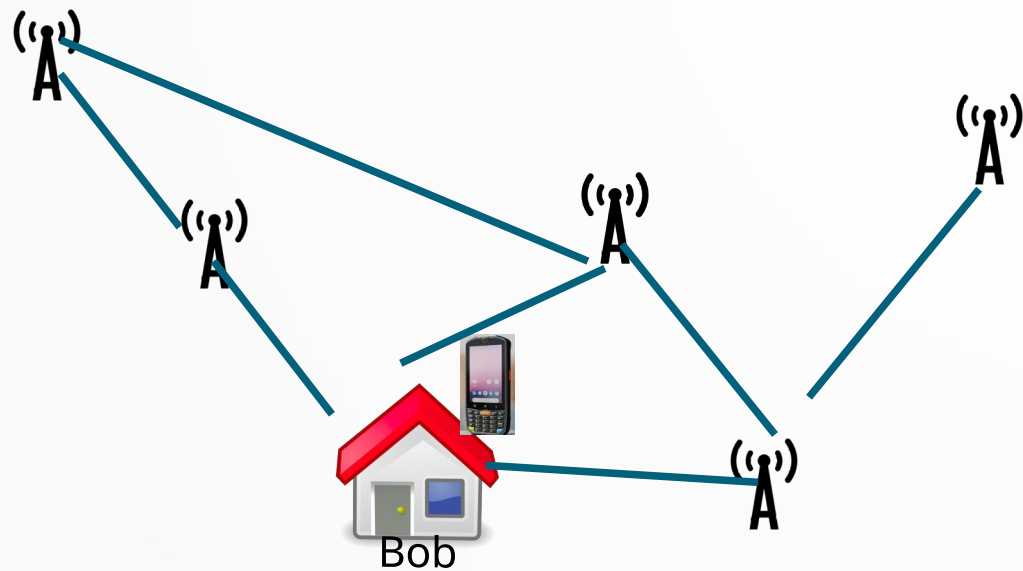
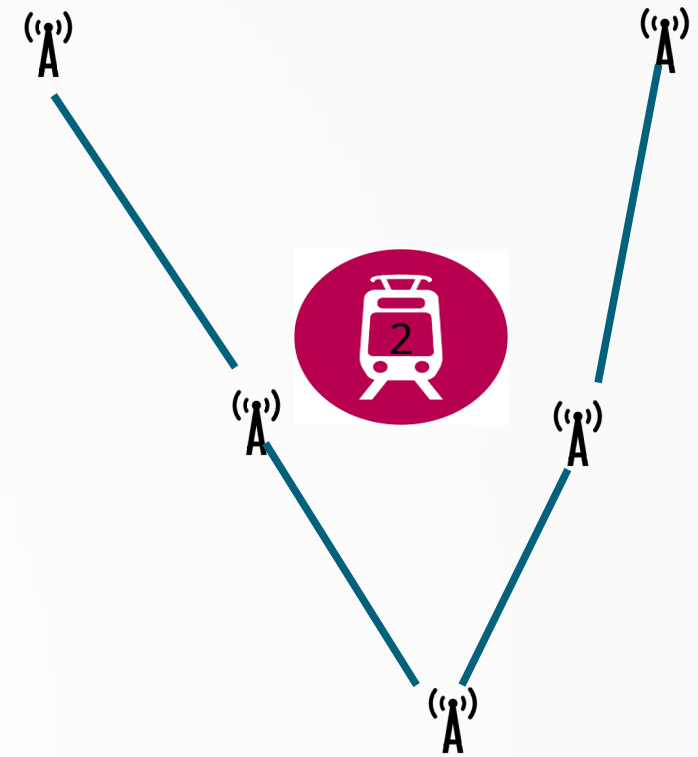
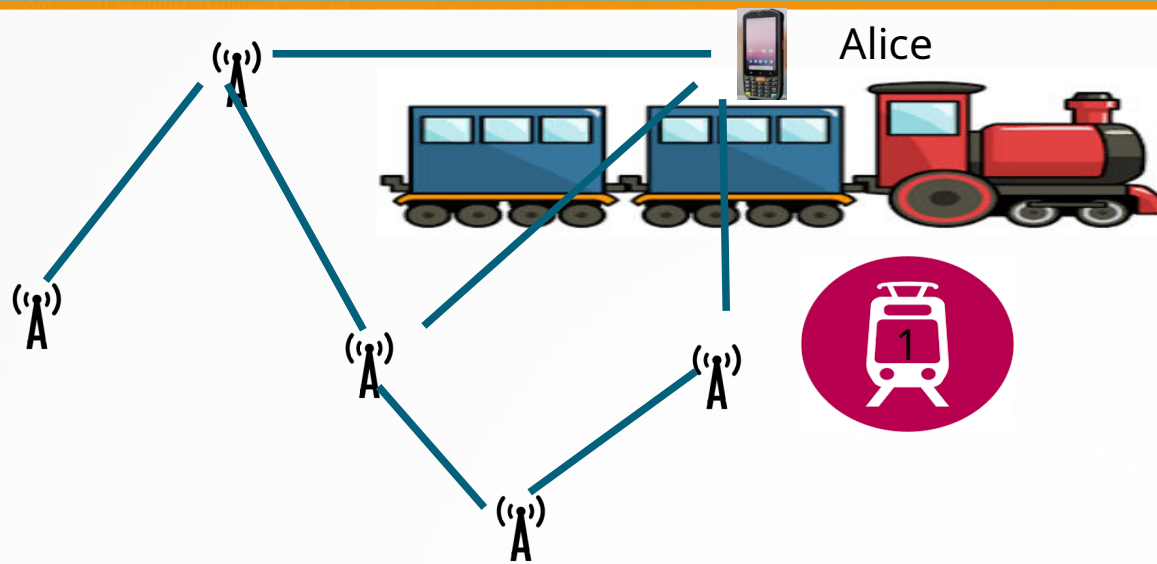
SIVA KUMAR (crs2016)

SUBIR DAS (crs2010)

SWAGATA SASMAL (crs2024)



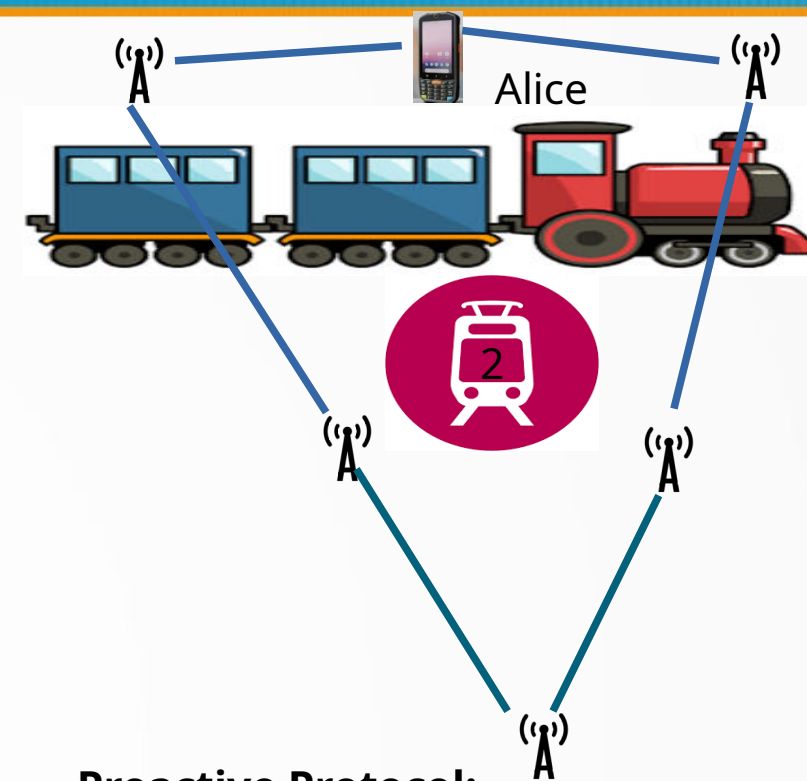
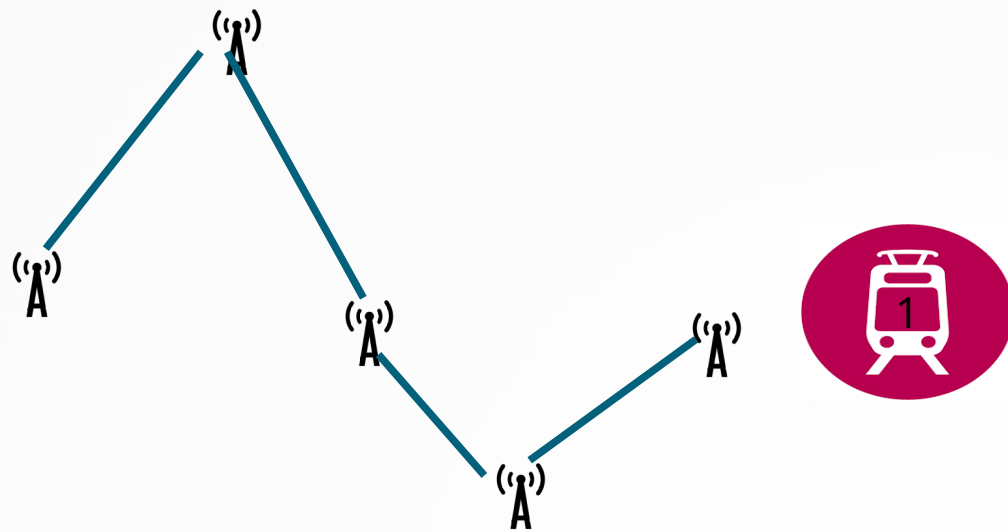
Alice travelling by train
Bob is at home far away
From Alice.



Proactive Protocol:

Each node calculating route to each other node in the network periodically.

Issue: Alice don't need to use the Route for some period.

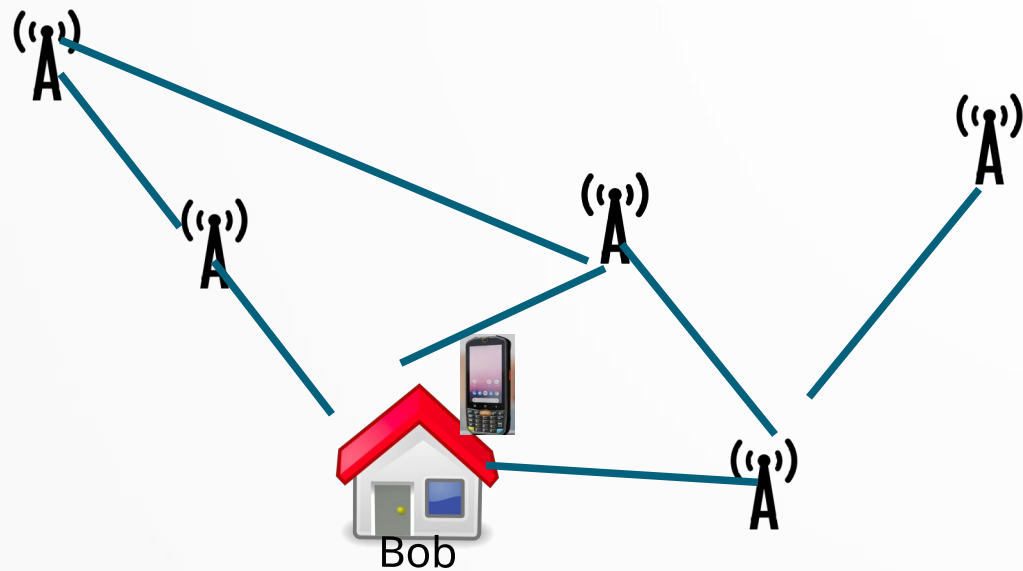


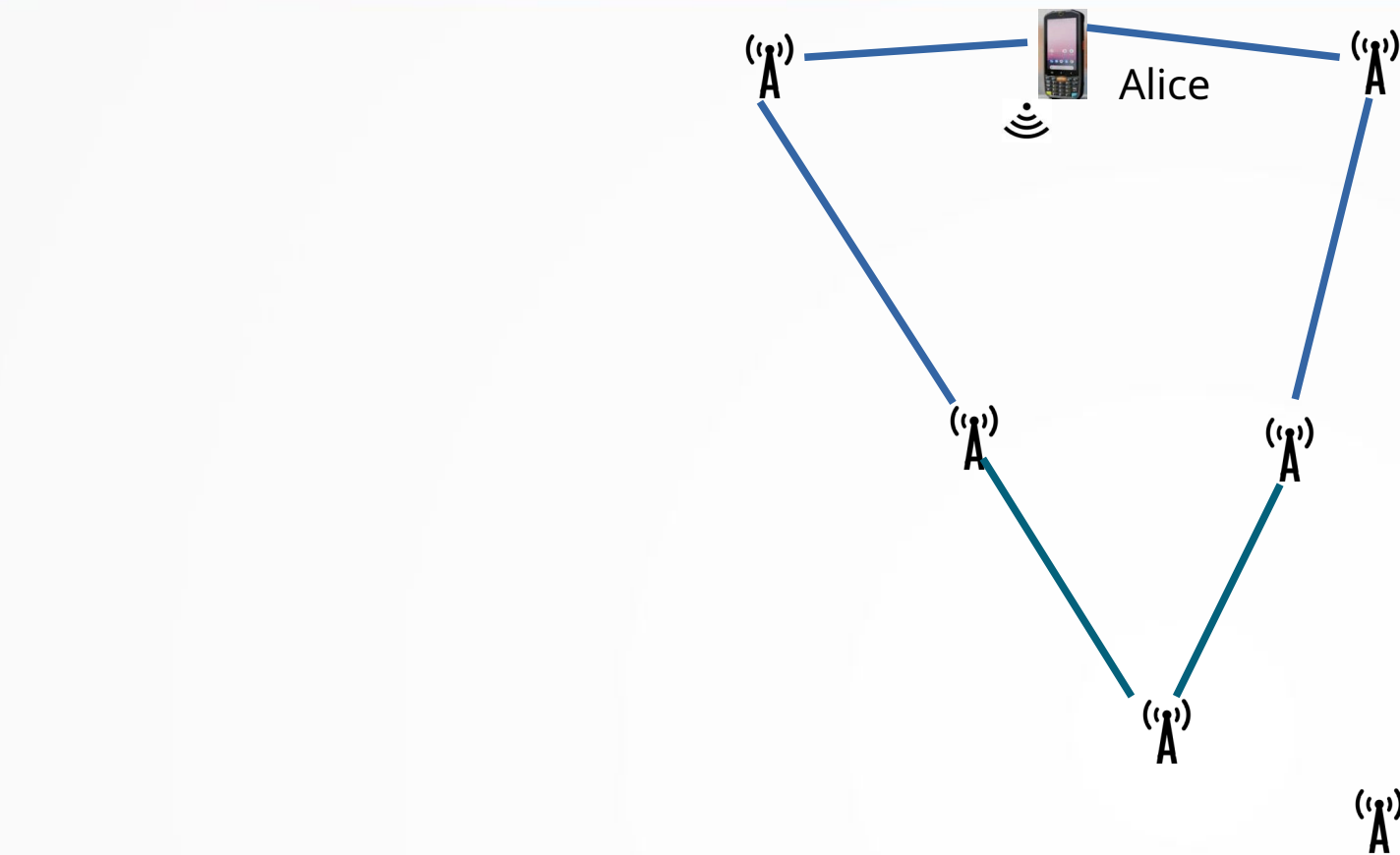
Proactive Protocol:

Alice reaches station 2.

The topology of Alice node
Entirely change from previous.

Issue: Bob node is far away from
Alice eventhough both of them
Needs to update the routing path





Reactive Protocol

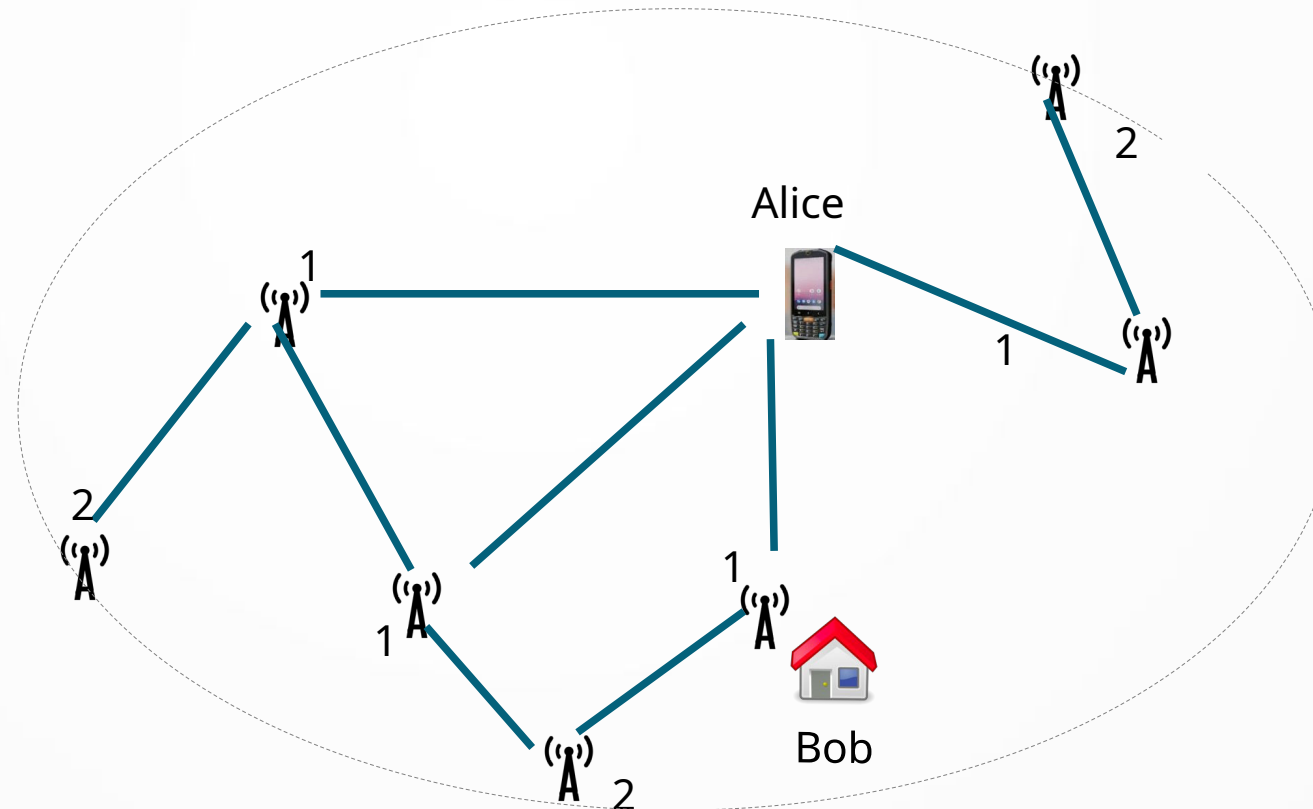
This is a ondemand service.
Like Alice wants to send a packet
Then be brodcust his quary to the
entire network.

Issue: Brodcusting uses networking
Resources. Also as the route
Is not availavle it makes time delay.
Another issue is that if Alice needs
To send packet very frequently
Then it make network conjunction.

Zone Route Protocol(ZRP) is a hybride protocol
By taking both Proactive and Reactive Protocol.

Here we define a radius of a zone according to the
Hop distance. Then proactively find route on on the
Radius zone. Also use reactive protocol in controlled
Manner for out side of the radius(zone).

In case of destination is in the zone of source
Here Alice want to send packet to Bob.



In case of destination is out side the zone of source

