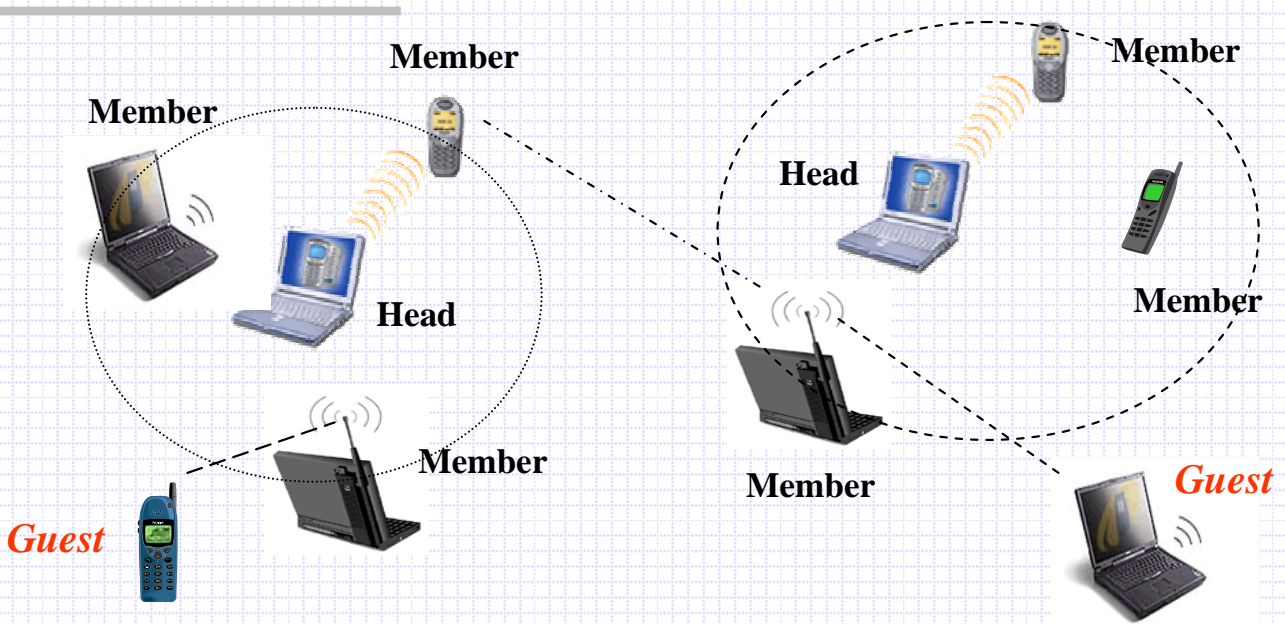




3hBAC: a Non-overlapping Clustering Protocol for Ad Hoc Networks



- Mobile ad hoc network can be implemented in lots of instant deployment cases to set up a short-lived network, such as
 - battle field communications,
 - disaster relief,
 - conference rooms.
- Clustering control structure supports the scalability very well in a large dynamic ad hoc network.
- A novel clustering protocol, **3hBAC**, introduces a new concept of '**GUEST**' node.
- Advantages are:
 - providing a more stable clustering structure.
 - producing less no. of clusters in the formation phase.
 - keeping the cluster no. at a constant low level in maintenance phase.
 - extending average clusterhead lifetime.
 - extending average membership time.