



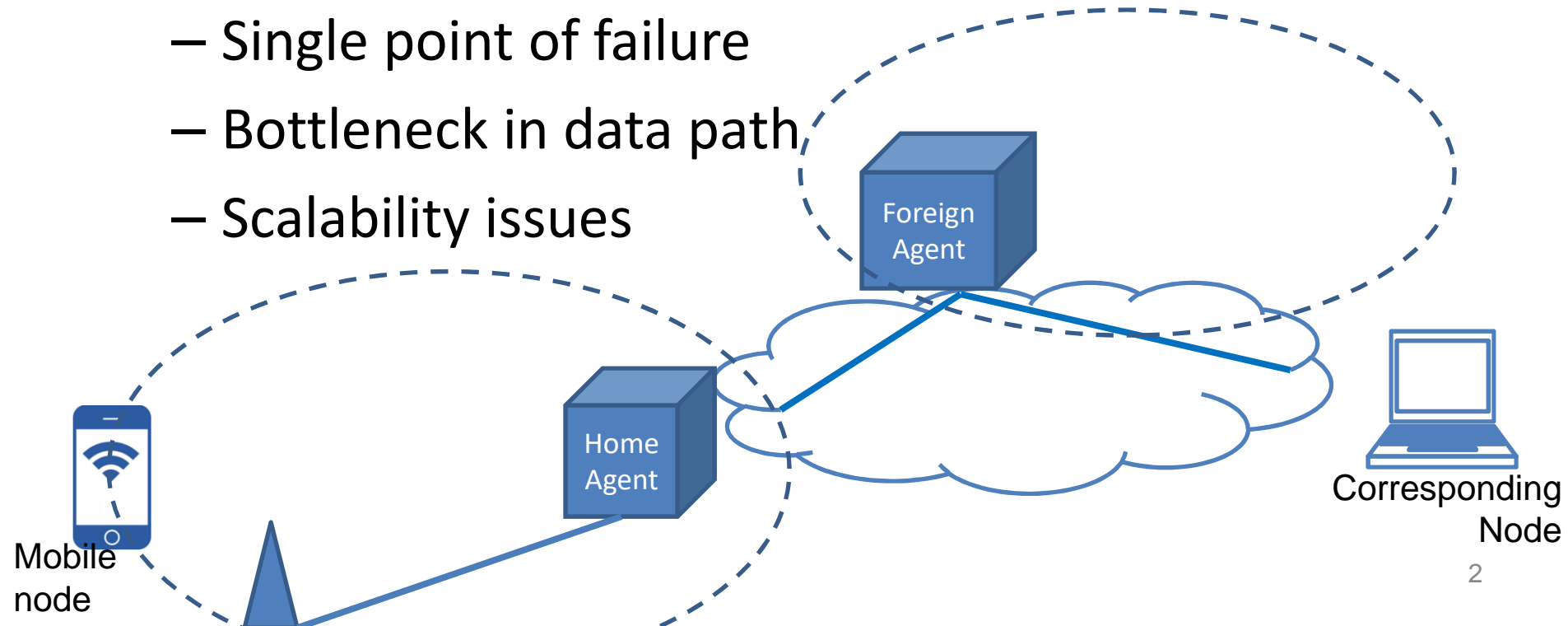
DMM: Distributed Mobility Management - Towards Efficient and Scalable Mobile Networks

Special Session along with ICN 2017



Problem Statement

- Centralized Mobility Management (CMM)
 - MIP - Home Agent
 - 4G – PDN-GW
 - Single point of failure
 - Bottleneck in data path
 - Scalability issues





DMM Issues (by IETF)

- Distributed mobility management
 - Tunneled x host based DMM
 - Split anchor functions
- Bypassable network-layer mobility support for each application session
- IPv6 deployment
- Existing mobility protocols
- Coexistence with deployed networks/hosts and operability across different networks
- Operation and management considerations
- Security considerations
- Multicast considerations
 - Per-flow multicast routing support



- Inter-domain handover
 - CI-PMIPv6
- Expressive Modeling
 - Timed Petri Nets (work in progress)