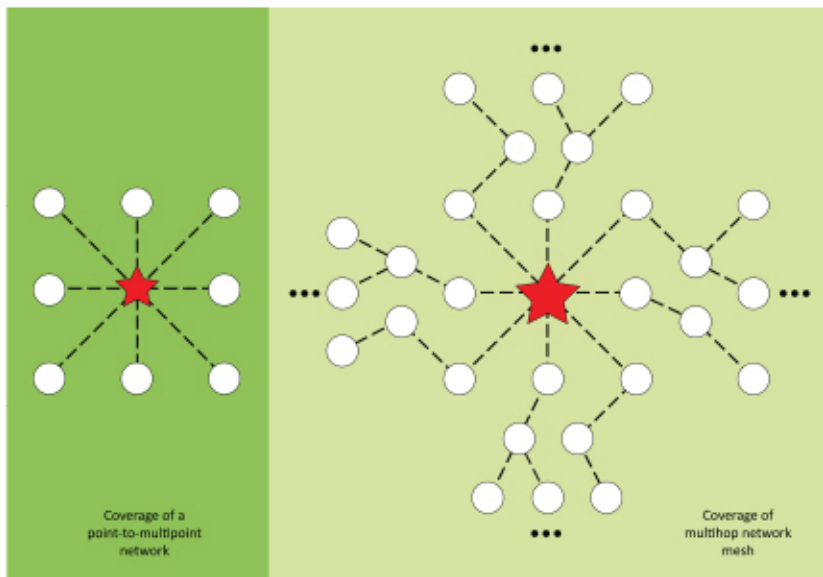




In a typical monitoring network, each remote monitoring node requires a connection (e.g 3G or lease line) to the Internet to send back the data. With the I²R's mesh routing algorithm, multiple nodes can share one connection.

Features

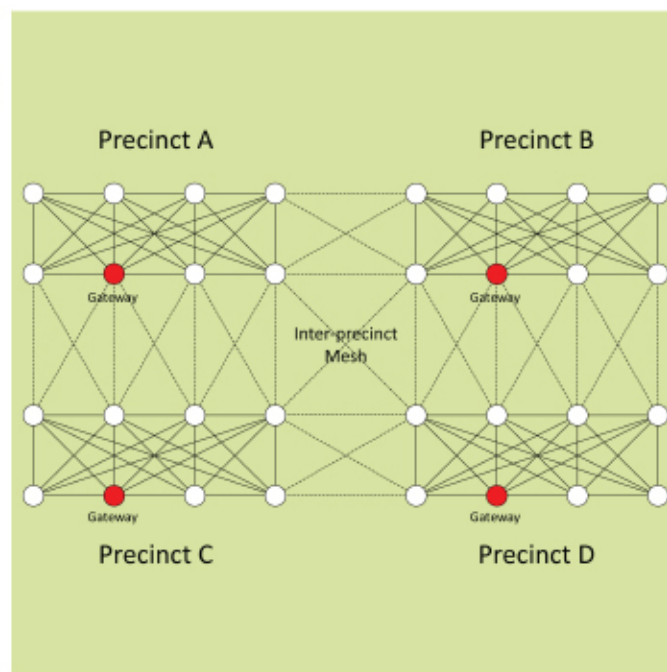
- Mesh routing with load-balanced relay and gateway selection
- Low signaling overheads with only broadcast-based signaling
- Fast route re-discovery when a link is down
- Mesh routing algorithm has small code footprint that can be ported to various platforms
- Software-based mesh solution allows integration with various radio platforms for various applications



Many more nodes can share the gateway (access point) through a multihop mesh network

Applications

- Remote monitoring and control
- Smart grid networking
- Battlefield adhoc networking



Benefits

- Cost saving from infrastructure network subscriptions
- Automatic routing setup in adhoc applications
- Routing is adaptive to wireless link connectivity
- High network availability due to availability of multiple paths



Industry Development Group

Institute for Infocomm Research (I2R) | Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632

Tel. (65) 6408 2000 Fax. (65) 6776 1378 Email. inddev@i2r.a-star.edu.sg www.i2r.a-star.edu.sg