Ad-hoc Networks
IP Address Model

Autoconf Design Team
IP Subnet Config

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IP Subnet Config

• In a MANET, link-level connectivity is not stable enough to allow us to readily identify nodes to be addressed within a single subnet
• “Subnets” are essentially reduced to a single interface and address
• No two interfaces appear in the same IP subnet to run a MANET routing protocol
• Recommended solution: configured IP subnets should be /32 or /128
IP Address Configuration

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IP Address Configuration

- MANET routing protocols generally require that the addresses be unique within the routing domain.
- If these addresses are exposed outside the routing domain – e.g., for applications accessing the Internet, then the addresses may need to be globally unique.
- Configured addresses should be unique at least within the routing domain.
Some Open Topics
( perhaps we can close them today?)

1. Configuration of additional addresses/ prefixes, if any, beyond those used to setup and operate the MANET routing protocols?
2. What is the “MANET Link Model”?
3. Can we use Link Local addresses?
4. Do the addresses have to be globally unique (related to #1)?