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Requirements for IP Autoconfiguration Mechanisms in Backbone

Wireless Mesh Network scenarios

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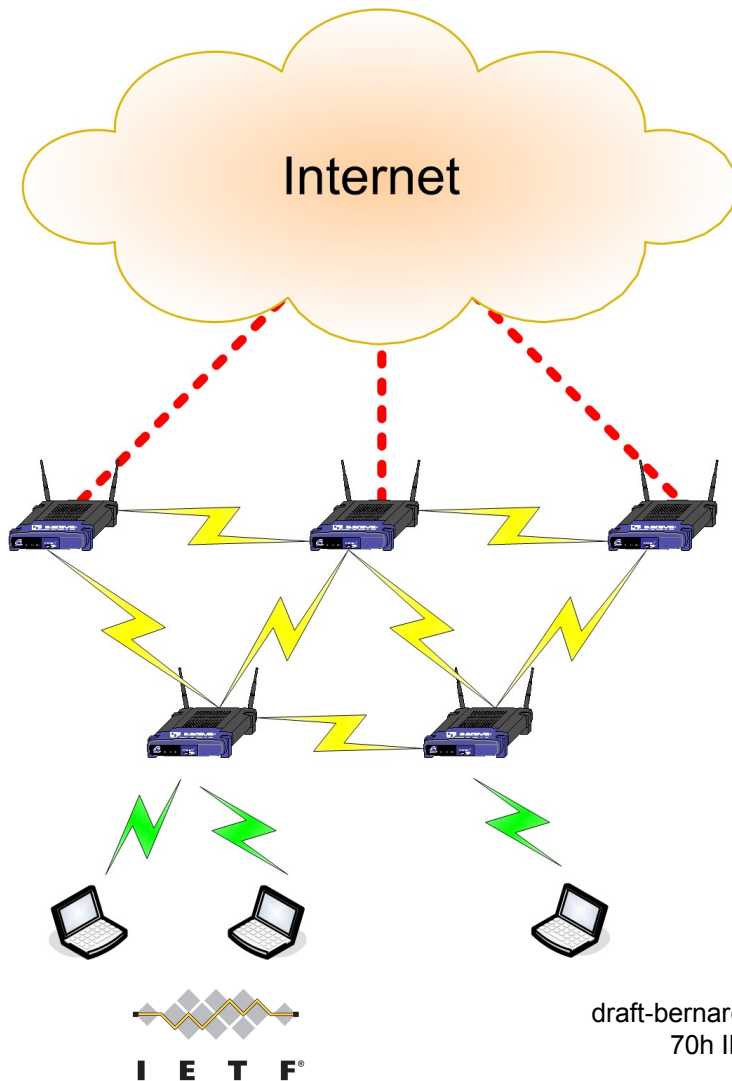
Outline

- Goals
- The Wireless Mesh networking scenario
- Backbone WMN requirements
- Next Steps

Goals

- Identify main requirements posed by the the mesh scenario
 - Scenario relevant for end-users and telcos
- Help the WG ensure that these requirements are considered when working in the solutions

The Backbone WMN scenario



- Infrastructure-connected
- Multiple gateway nature
- Low/null node mobility
- Compatibility with existing wireless access networks, Internet protocols and legacy nodes
- Scalability
- Low power-consumption constraints
- Multiple types of access

Backbone WMN requirements (1)

- Connected scenario
- Address uniqueness
- Merging/partitioning support
- Mobility type
- Protocol overhead
- Robustness
- Convergence time
- Prefix delegation support

Backbone WMN requirements (2)

- Address space utilisation
- Distributed/Centralised approach
- Trust and security
- Integration with standard IPv6 nodes
- Gateway involvement
- Routing protocol dependency
- Multiple interfaces support

Next Steps

- Comments are very welcome
- Refine and complete the analysis of the mesh requirements