

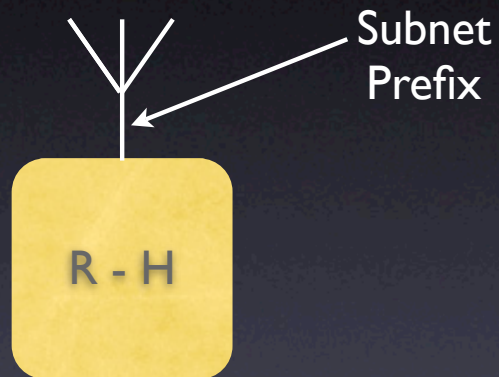
Proposed MANET Architecture Model

(Inspired from DaveT, ThomasN, JoeM, JariA, manet-wg, autoconf-wg, ...)

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<http://www.lix.polytechnique.fr/hipercom>

Misperception



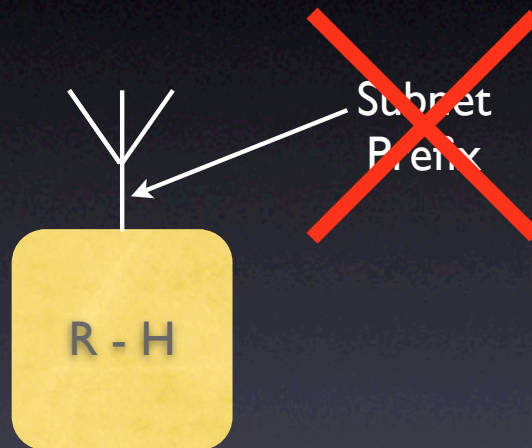
- Platform applications
 - DAD, Name Resolution, Service Discovery
- Host Application
 -
- Well-defined assumptions break:
 - TTL, Multicast, Subnet Prefix

[draft-iab-multilink-subnet-issues-01.txt](#)

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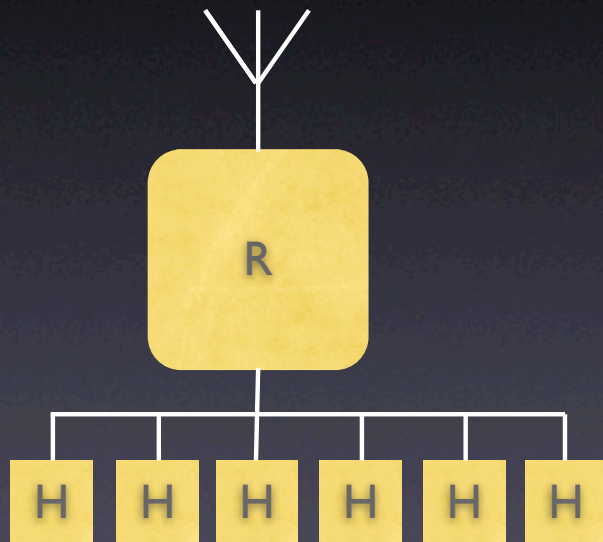
Architectural Model



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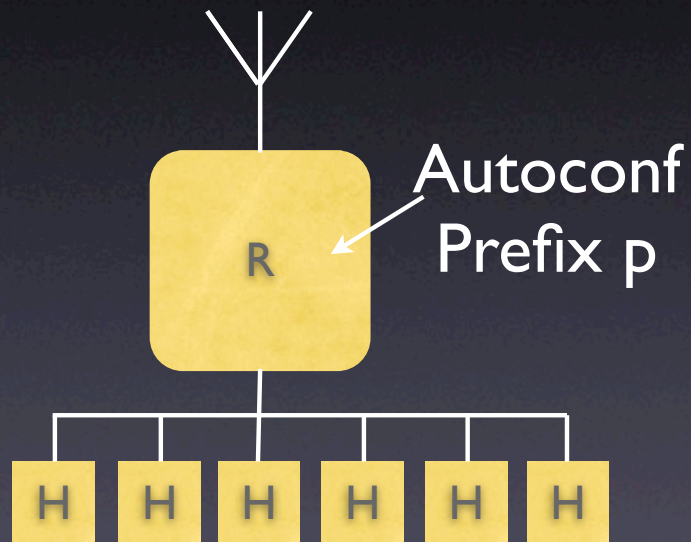
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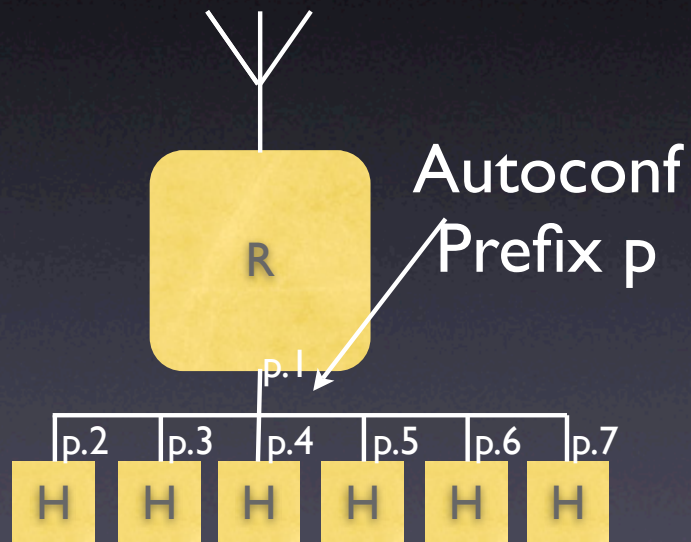
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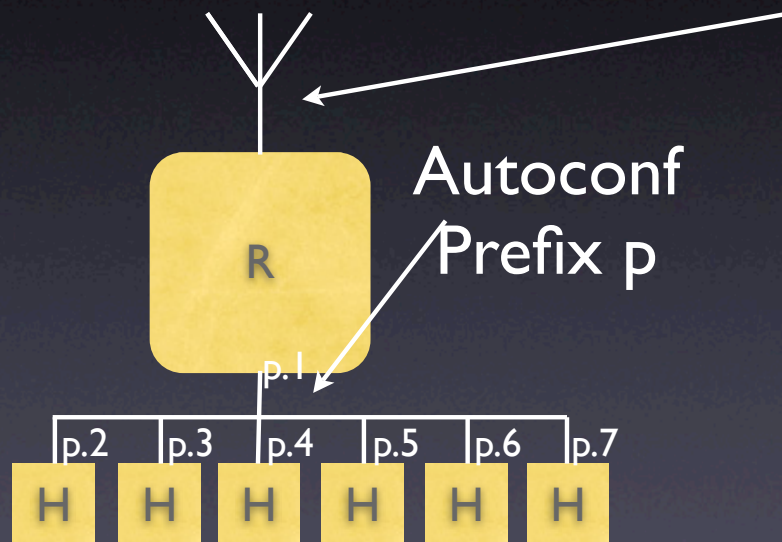
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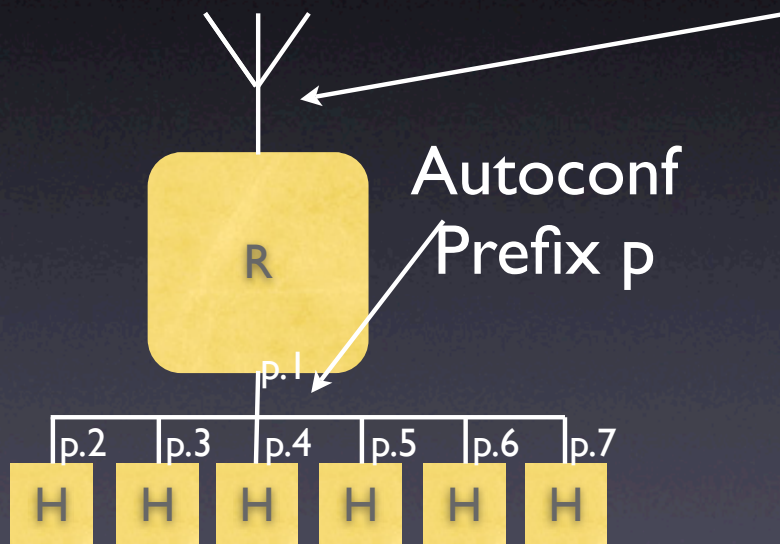
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Architectural Model



- **On-link Address:**

- Link-Local Address (v6)
- Unnumbered (v4)
- /32 or /128

- **Multicast:**

- LL: reaches neighbors only

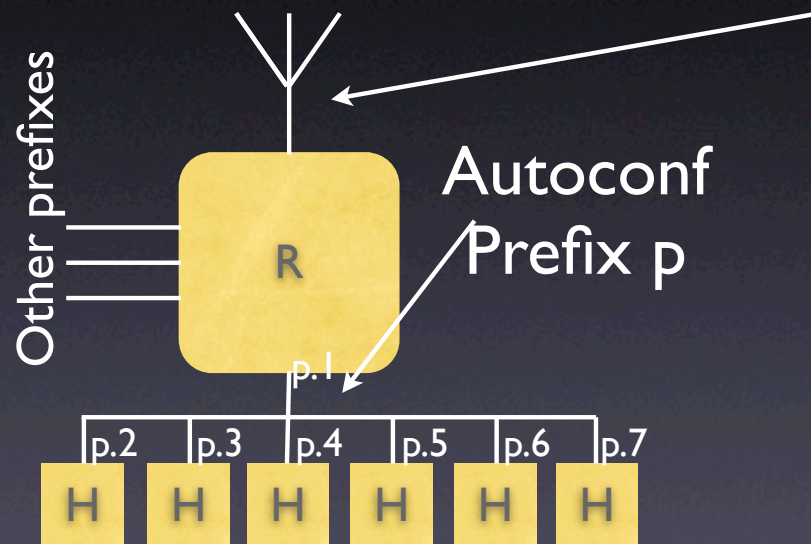
- **Autoconf Tasks:**

- On-link address assignment
- Prefix assignment to router

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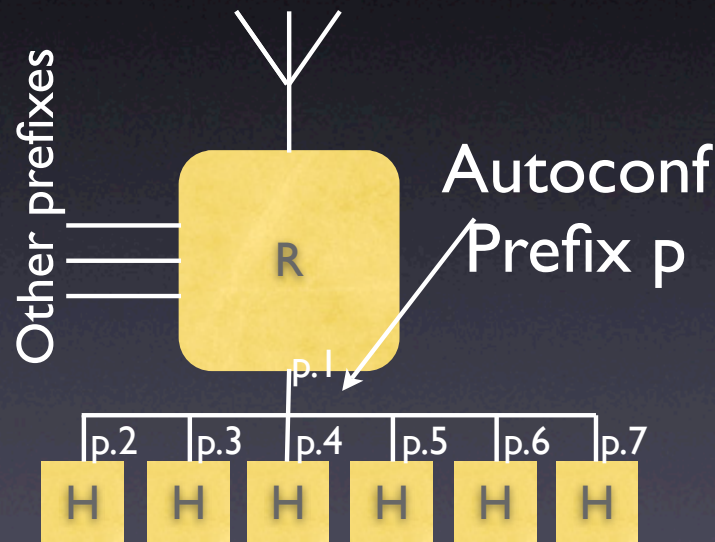
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Architectural Model



- Properties:

- Hosts/subnets on non-MANET interfaces use existing autoconf approaches
- Applications on hosts see an interface of same type "as usual"
- MANET interface is only seen by MANET router (RP + AUTOCONF)
- Multi-hop MANET areas may use a site (not subnet) prefix

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