

Ensuring Home Network Visibility to Home Gateway

draft-haddad-homenet-gateway-visibility-00
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Background

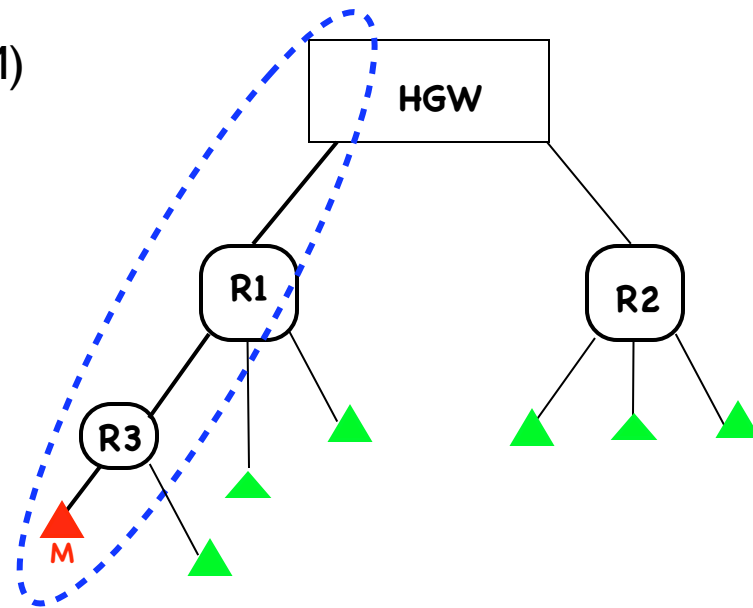
- There is a trend towards service enhancements for home network users
- It is important that configuration and operation of such services are easy and can be delivered to average users
- The current practice depends upon certain home networks

Motivation & Goal

- Future home services may require special treatment to corresponding packets exchanged between the home device and the destination.
- A home network comprising multiple routers limits the home gateway visibility to the entire home network and thus, reduces its capability to detect all home devices.
- This also means that some special/critical services won't be delivered to/from particular home devices with the expected treatment due the “*lack of knowledge*” on the HGW side.
- Our main goal is to ensure that packets associated with these services be treated as expected.
- One way to simplify the problem is to centralize the service configuration (i.e., and let one particular node do the rest).

Motivation & Goal

For example, packets exchanged between (M) and the HGW require priority treatment



Proposal

- Let additional routers report about their connected home devices network parameters to the HGW, e.g., via an explicit request.
- Service configuration is performed at the HGW
- One way to implement it for example is to use new ND messages

Questions?
Thank You!