Ensuring Home Network Visibility to Home Gateway
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).
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!