

Homenet Security

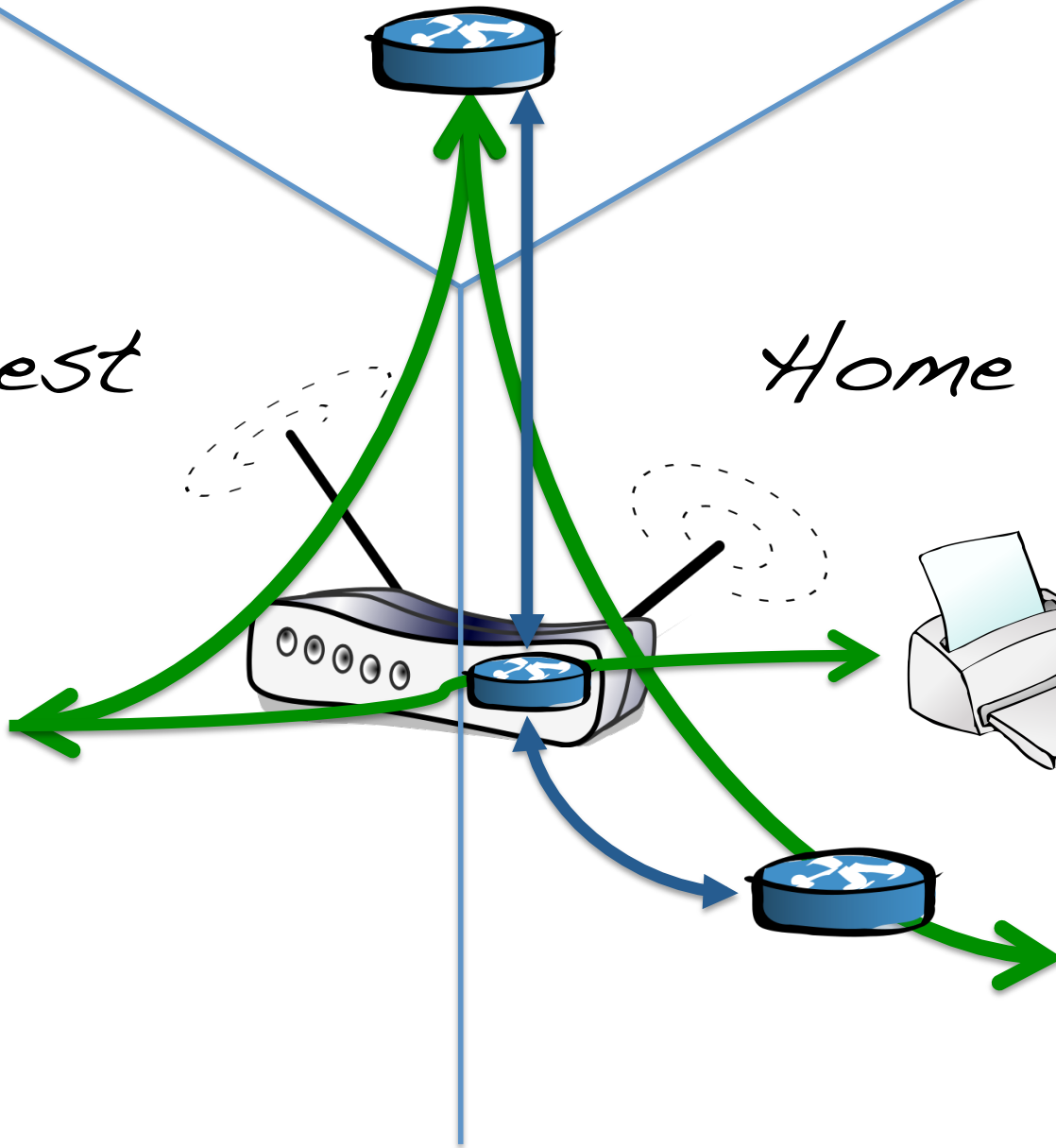
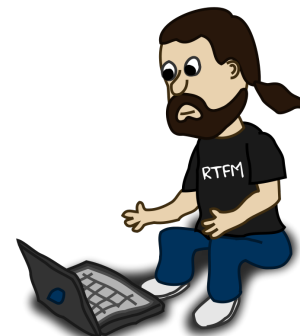
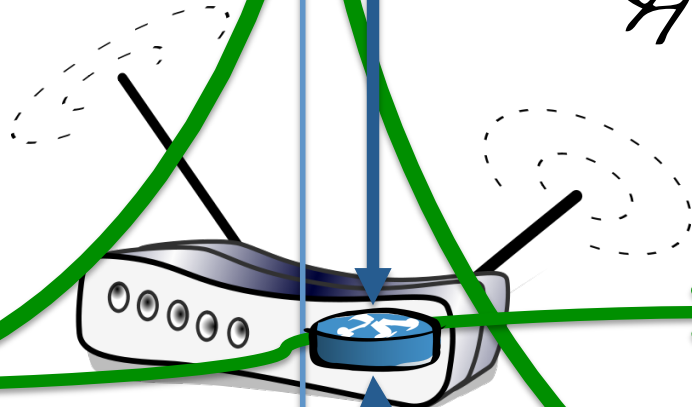


Internet



Guest

Home



1. Make a list of knobs

- Between Home Routers
 - Link addressing (neighbor discovery)
 - Reachable Prefixes (routing)
 - Known Services (router itself, mDNS Proxy?)
 - ...
- Through a Home Router (from one interface to another)
 - Traffic matching a configured rule (UPnP, PCP, etc)
 - Traffic matching a stateful entry
 - Service Discovery (Multicast?)
 -

2. Apply settings (policies) to the knobs

- Between Home Routers
 - Link addressing (neighbor discovery) **Enabled**
 - Reachable Prefixes (routing) **Global Prefixes Only**
 - Known Services (router itself, mDNS Proxy?) **Router only**
 - ... **Other settings**
- Through a Home Router (from one interface to another)
 - Traffic matching a configured rule (UPnP, PCP, etc) **Yes**
 - Traffic matching a stateful entry **“Advanced FW Mode”**
 - Service Discovery (Multicast?) **No**
 - **Other settings**

Homenet's Goal for Policies

- Define a default set of policies for the 3 combinations of “Home”, “Guest” and “Internet”
- Policy knobs should be rich enough for other “realms” to define their own policies, static or dynamic (implying some control protocol or UI)
- For the “Internet Facing” policies, adopt RFC 6204 (including firewall)

Other Security Items..

- Recommend an auto update capability for router firmware
- Do we need to associate scope with a prefix, or is Link-Local, ULA and Global sufficient?
- ...?