ISIS Auto-Configuration
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Background

- Draft had been presented twice (IETF88/89)
  - Main techniques are in a good shape
  - Specific comments are still welcome (on the list please)
- An implementation
  - Netdef demonstrated an OpenWRT-based implementation of ISIS-Autoconf and source-based routing functions in IETF90 Bits'N'Bites *(http://www.opensourcerouting.org/2014/08/homenet-with-isis-autoconf-and-srcdest-routing-proof-of-concept/)*
  - The implementation aligns with the Homenet architecture

Regarding to Usage in Homenet

- In last presentation, the main concern was whether Homenet would use ISIS

- The Homenet status on this issue
  - Homenet WG still hasn't made any decision on routing protocols
  - Homenet WG adopted HNCP which is able to negotiate a routing protocol among routers

Usage in Small or Medium Enterprises

- SMEs also have the requirement for plug-n-play
- They might need different routers than Homenet CPEs; these routers don't need to comply with Homenet architecture or limitations.
- ISIS advantage
  - Doesn't need IPv4/IPv6 up and running before it can get itself started and discover the network topology
  - Compatible to the devices that don't intent to configure IP addresses (e.g. SCADA)

Conclusions

- ISIS-autoconf fits in home networks
  - The open source implementation run well in demonstration
- Other than home networks, ISIS-autoconf could also benefit scenarios such as small and medium enterprises

Next Steps

- Adopted as a WG item?

Thank you!

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