IETF update
12th UKNOF

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6man

- Maintenance of IPv6 (base) protocols
- Perhaps not always of operational interest, but can be worth monitoring

ntp / tictoc WGs

- NTP WG is tasked with working on NTPv4
  - Refinement and documentation
- TICTOC tasked with developing a future time / frequency transfer standard over IP
  - IEEE1588 profile
  - An IP based protocol, either a new or modified version of NTP
- Needs more input from providers

softwire

- Specifies discovery, encapsulation and control of IPv6 traversal over IPv4 domains and v.v
  - Based on two models, Hub-spoke and Mesh

SAVI WG

- Idea is to enable LAN/L2 or L3 aware switches to understand valid L3 source addresses
- Solutions should be based on manual or automatic configuration, preferably by observing L3 behavior
  - and only intra-domain
- Currently analyzing the solution space

shim6 / RRG / LISP BOF

- shim6 base spec has been with IESG for quite a while
  - Working on addressing IESG comments - almost done
- RRG
  - Working on various (other) alternatives
  - No one solution on architecture chosen yet, working on architectural implications as well requirements
- LISP BOF applied for
  - Aiming for experimental status but if approved does not mean that RRG has concluded one way or the other

opsec WG

- Operational security guidelines
- Currently a lot or work on the IPv4 security assessment but also on uRPF black hole
  - The latter documents remote triggered black hole
  - Expansion to RFC3882 that blocks based on src rather than dst

sidr WG

- Work on resource certificates and associated structures
- Have came quite far on the certificates and structures
  - Needs work on validation
- Limited to inter-domain router-router verification

behave

- Work on NAT and NAT traversal
- But now also on CGD and NAT64 mechanisms
  - NAT64 was at an interim meeting deemed as the most critical part to resolve
- Will (potentially) have impact on IPv6 deployment

NAT66 BOF

- Discussion at IETF74 on drivers for IPv6-IPv6 NAT
  - Topology hiding, renumbering etc
- IPv6-NAT is likely to happen with or without IETF - just like IPv4-NAT
- An IETF standard would target enterprise needs
  - Operational input welcome!