

# **SAVI BoF Discussion**

**70<sup>th</sup> IETF meeting, Vancouver**  
**December 5, 2007**



# Proposed Charter

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While the MIT Spoofer project has measured that about 75% of networks deploy ingress filtering, ingress filtering at a finer granularity is not yet as common. A number of proprietary mechanisms exist (e.g., "IP source guard") which offer partial solutions to prevent hosts from spoofing the source address of another host in the same subnet. The purpose of the proposed "Source Address Validation Improvements" working group is to standardize mechanisms to prevent source address spoofing in the access network.

Specifically, the group shall define solutions such that hosts attached to the same router cannot spoof each other's addresses. The following assumptions apply:

- The WG considers only solutions on layer-3-aware Ethernet switches
- Two solutions are needed, one for IPv4 and another one for IPv6
- The IPv4 solution depends on tracking the DHCP traffic on a port
- The IPv6 solution depends on tracking the Neighbor Discovery and DHCP traffic on a port
- All address assignment mechanisms in IPv6 need to be supported, including stateless, stateful, privacy, and so on
- The solutions are turned on for host ports by configuration, and do not apply to routers

The WG recognizes anti-spoofing deployment efforts, motivation, and best practices development in various forums around the world (including RIPE). The WG is only chartered to deliver two specific solution components that such efforts could employ. The bigger questions are out of scope.

*Milestones on next slide...*

# Milestones

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|---------------|--|
| <b>Done</b>   | First draft on IPv4 solution                       |
| <b>Done</b>   | First draft on IPv6 solution                       |
| <b>Done</b>   | BOF decision                                       |
| <b>Dec 07</b> | BOF in IETF 70                                     |
| <b>Jan 08</b> | WG approval  |
| <b>Feb 08</b> | First WG draft on IPv4 solution                    |
| <b>Apr 08</b> | First WG draft on IPv6 solution                    |
| <b>Jun 08</b> | Submit IPv4 solution to IESG for Proposed Standard |
| <b>Dec 08</b> | Submit IPv6 solution to IESG for Proposed Standard |

# Questions to the Audience

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- Do you think IETF should work on local IP source address validation improvements?
- Is there sufficient commitment for this work?

# Mailing List

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- **General discussion**  
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