

# Survey on the state of Multicast support

IETF121 - MBONED

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# Overview

- Well established that multicast (especially SSM) is still lacking a lot of support
- Just how much lack of support is there?
- Survey across different OSes/frameworks/languages by Vincent Wehr
- In short: ASM majority support, SSM barely any

# Overview

- Languages evaluated: C, C#, C++, Python, Java, Go, Ruby, Rust
- OS: Ubuntu, MacOS, Windows
- ASM IPv4/6 supported in all languages and across Oses
- SSM only supported in C/C++ and Ruby (on Linux) and only in IPv4
- IPv6 SSM support only in undocumented socket op:
  - No IPV6\_JOIN\_SOURCE\_GROUP
  - MCAST\_JOIN\_SOURCE\_GROUP not consistently working
- Working on adding support (where possible) and getting it upstream (e.g. Rust done)

# Questions

- Receiver support only part of the equation, how about network support?
  - Always assumed to be bad
  - However, no tangible sources to point to
  - Any operators interested in participating in survey?
- Why is IPv6 SSM support so severely lacking?
  - Is anyone running any SSM on v6?