PFP—SA

- PIM Flooding Protocol – Source Announcements
- Generic protocol for distributing information throughout a PIM domain
  - RPF based flooding, similar to how BSR is done
- Source Announcements based on the above
- DRs announce sources in PFP instead of sending PIM registers

- No RPs or shared trees
- No single point of failure, good redundancy
- Simplification

- You may think of it as SSM plus network source discovery
- Potential replacement for Dense Mode in AD-HOC networks

- Can co-exist with other PIM modes, different mode for different group ranges
Use cases

• AD-HOC multicast networks
  – Works well in dynamic environments
  – No wasted bandwidth
    • Common to use Dense Mode in such networks, but data packets are flooded
  – Dense Mode has many issues and not that many current implementations
  – Swedish Army has tested a prototype and wants to deploy this
  – Several other AD-HOC networks considering the solution

• IPTV
  – Good for high rate streaming, only SPTs, no registers
  – Only a few hundred sources
Status

• A prototype has been successfully tested in the field
• At least a handful of networks are interested in deploying it
• The draft seems complete from the authors’ perspective, we need your help to improve it further.
• Might be ready for WGLC, but could need more review. Volunteers?