

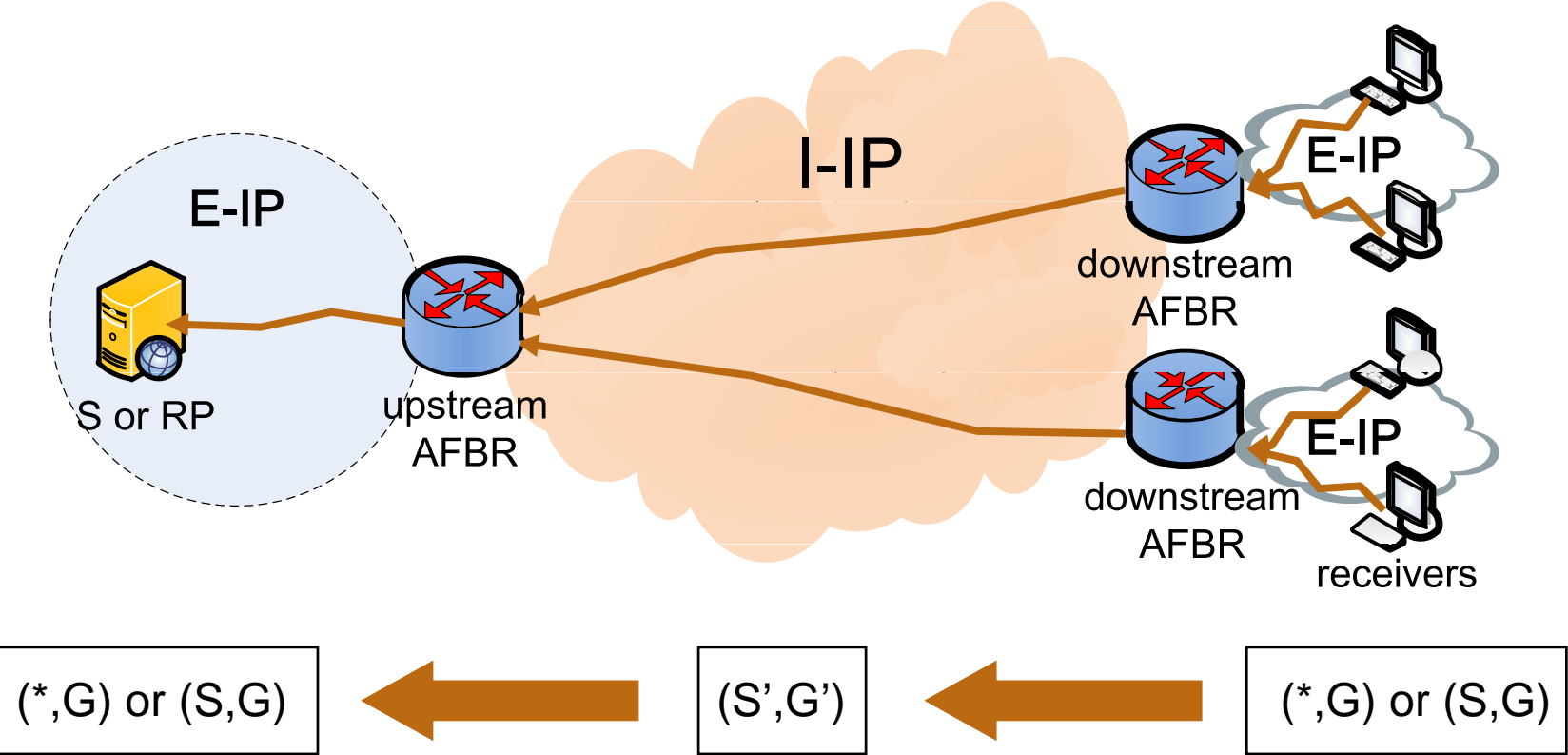
# Software Mesh Multicast

draft-ietf-software-mesh-multicast-07

Mingwei Xu, Yong Cui, Jianping Wu, Shu Yang  
Tsinghua University  
Chris Metz, Greg Shephard  
Cisco

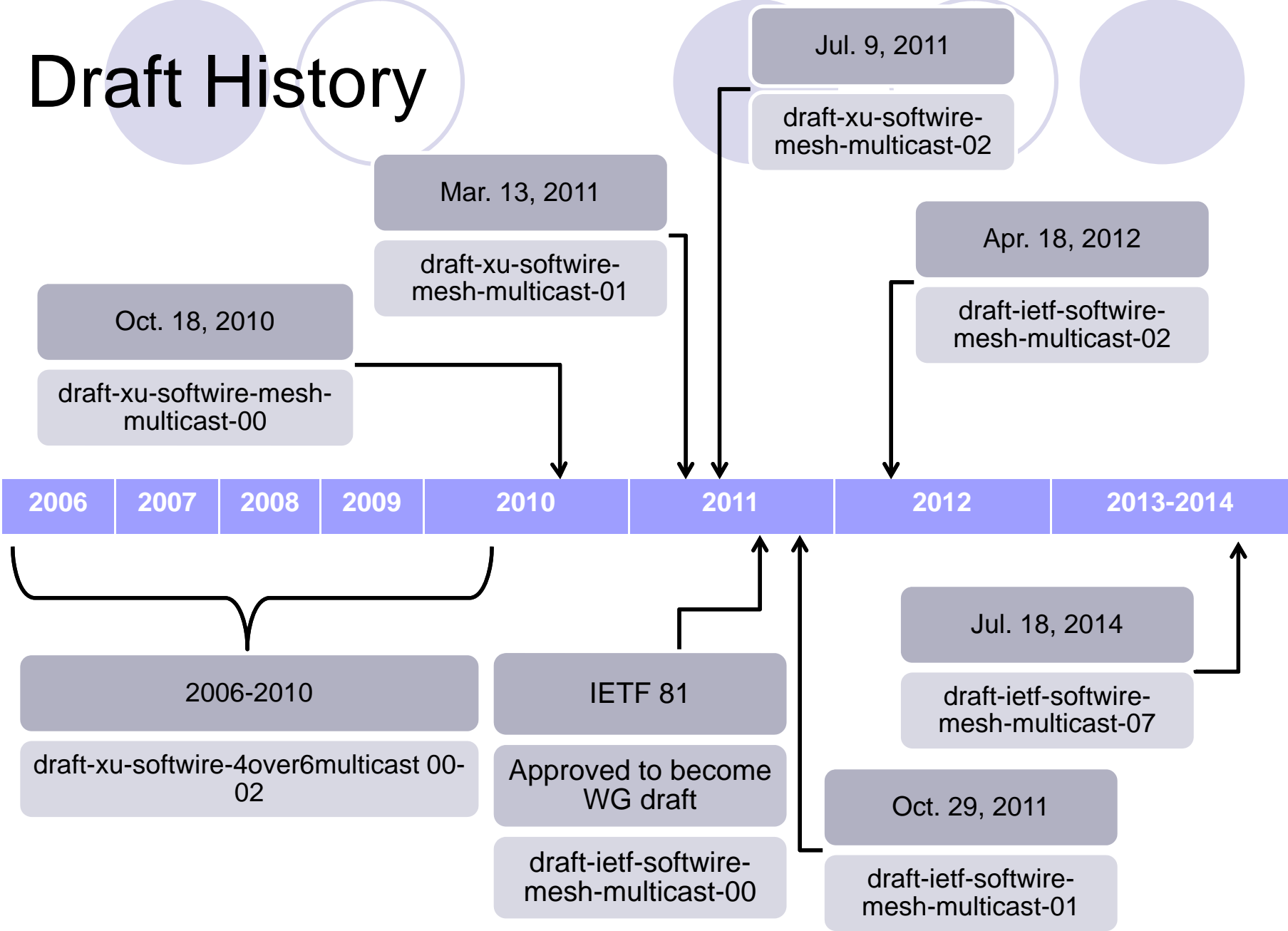
IETF 91, Hawaii

# Scenarios of Interest



To simplify the process, stateless one-to-one source address and group address mapping is applied

# Draft History





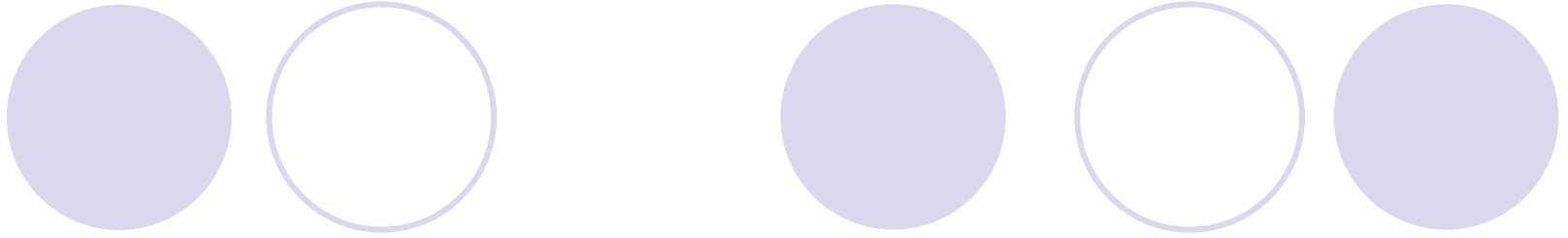
# Scenarios of Interests

- As is specified in RFC4601, SSM can be implemented with a strict subset of the PIM-SM protocol mechanisms
  - To make it simple, we can treat I-IP core as SSM-only
  - There remains only two scenarios to be discussed in detail
- E-IP supports SSM
  - S should be statelessly mapped to S'
  - S' must lead PIM messages to the corresponding upstream AFBR
- E-IP supports ASM
  - S or \* should be statelessly mapped to S'
  - S' must lead PIM messages to the corresponding upstream AFBR (RP')

# Our Contributions



- A complete and unique solution to multicast transition of “Mesh” scenario
  - A new source address mapping format
  - A new routing information distribution mechanism
- Uniquely enable the SSM-only transit core to support ASM
  - The process of (\*,G) messages
  - The process of (S,G,rpt) messages



**Thank You!**