

RSVP Receiver Proxy
[draft-sgai-rsvp-proxy-00.txt](#)

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Why?

- Because application developers asked us for a protocol to signal to the network:
 - user identity
 - application ID
 - sub-application ID
 - classification information
- and obtain back
 - policy information
 - e.g. the DSCP code point

The approach

- Let's design a new signaling protocol :-)
 - it should propagate along the data path
 - it should have:
 - a user identity object
 - an application identity object
 - a DSCP object
 - a five-tuple object, ...
- Fred suggested that we have such a protocol: “it is called RSVP” ;-)

In the meanwhile ...

- ISSLL was considering the “Null Service Type”
- RAP was working to add a flexible policy support to RSVP
- RSVP was adding functionality, e.g. “Aggregate RSVP”
- We decided to go for RSVP

The Oslo incident

- We presented a first proposal in Oslo:
 - Overambitious
 - Trying to solve too many cases
- We tried to learn from that experience
 - Today we are proposing RSVP Receiver Proxy for Mission Critical Applications:
 - Proxy of “Receiver” only
 - in association with Null Service Type

The proposal

- A switch/router along the path may act as a proxy for some flows:
 - basically it generates a RESV message when it receives a PATH message
 - under policy control
 - not for all flows, selection based either on application or on policies
- Other flows may continue to use the end-to-end model of RSVP

Do we agree

- that there is a case for RSVP Receiver Proxy associated with:
 - mission critical applications
 - Null Service Type?
- If NO, my presentation is over,
thanks for your time :-)

If YES

- We may ask ourselves:
 - Does it make sense to remove the word “Receiver” and develop an RSVP Proxy?
 - Does it make sense to extend this functionality to other service types, outside the Null Service Type?

RSVP and COPS

- RSVP exists also without COPS
 - RSVP Receiver Proxy may exist without COPS
- Today we have COPS for RSVP
 - it makes sense to extend COPS for RSVP to support RSVP Receiver Proxy
 - draft-nitsan-cops-rsvp-proxy-00.txt