

<draft-lefaucheur-rsvp-ipsec-01.txt>

Generic Aggregate RSVP Reservations

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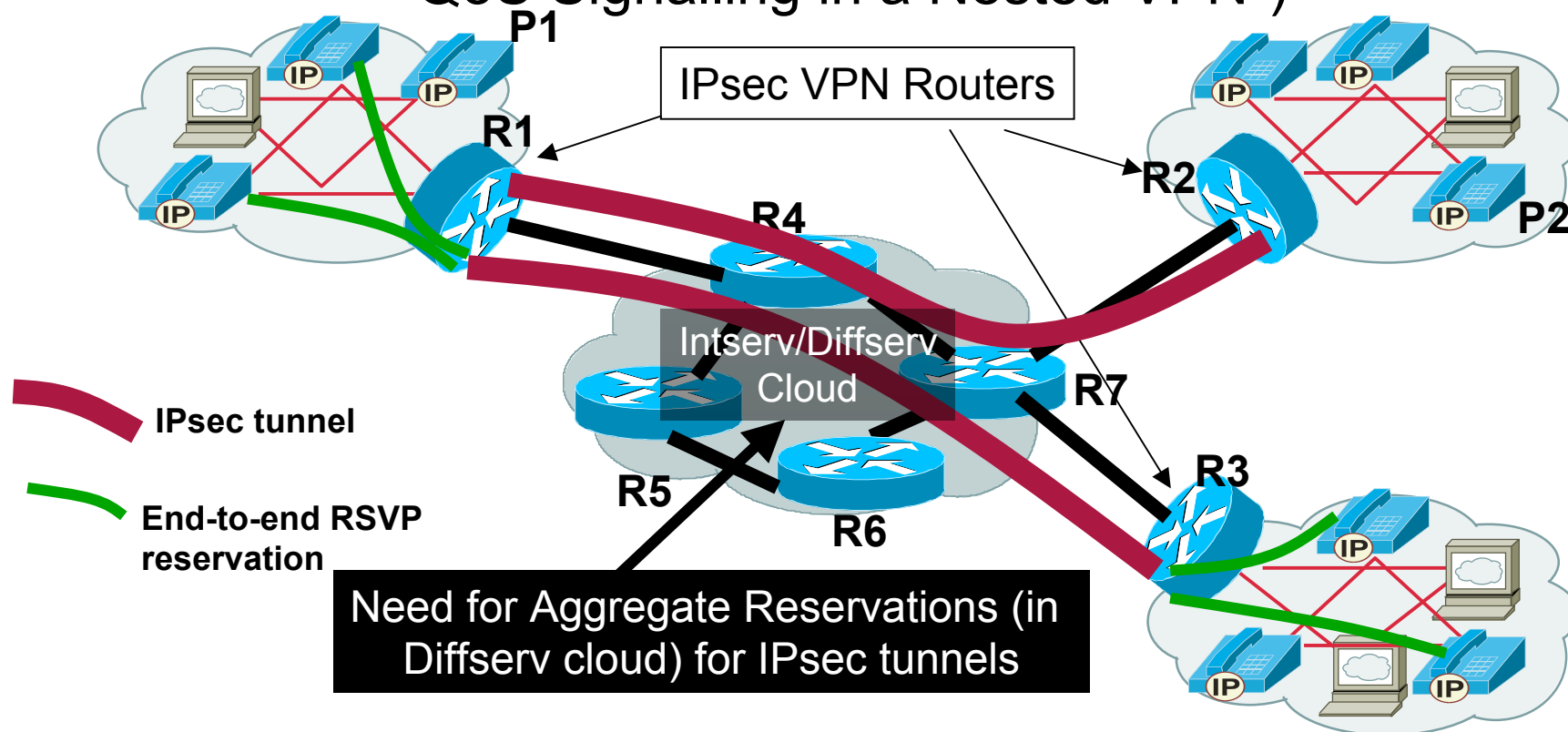
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Booz Allen Consulting

Use Case: Nested VPN

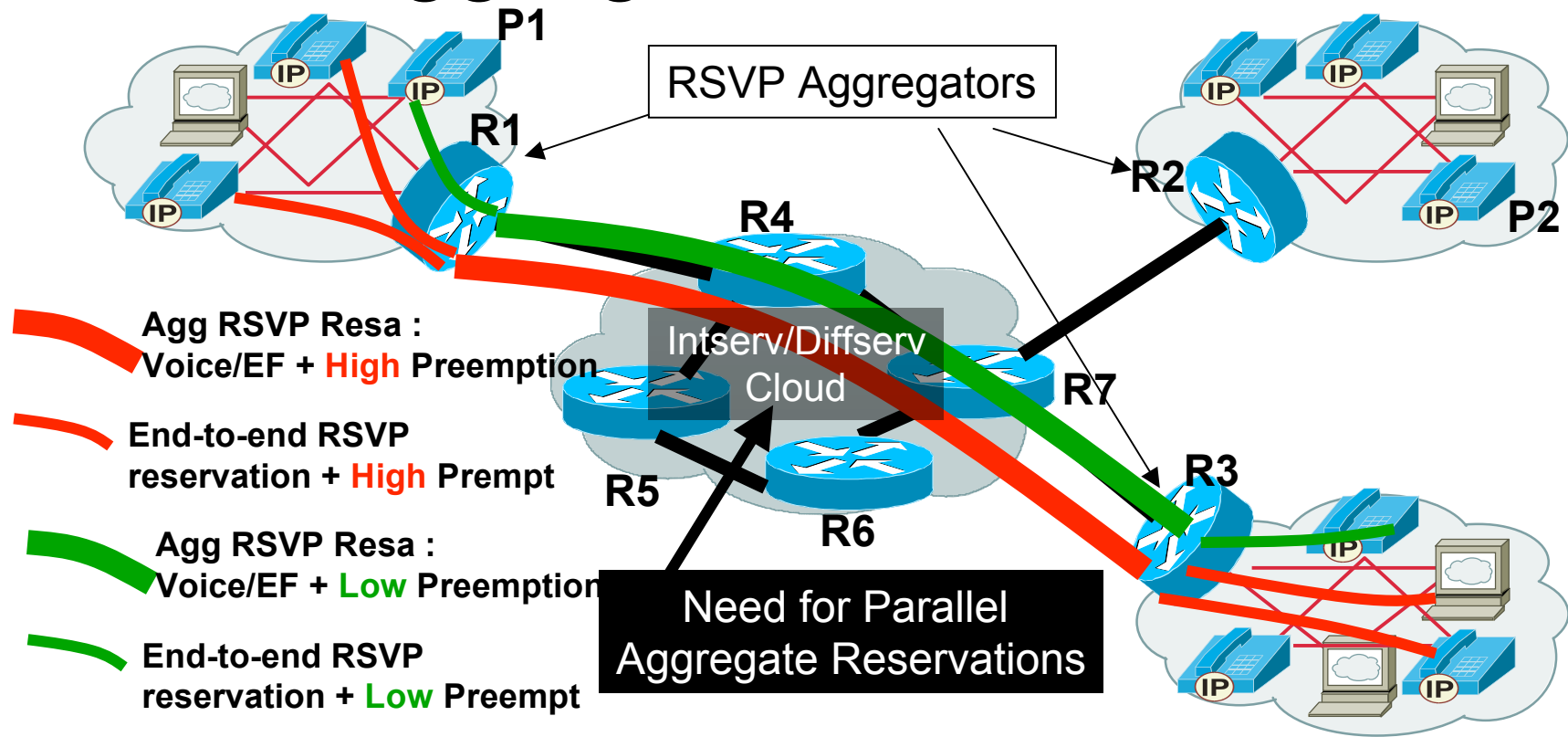
(draft-baker-tsvwg-vpn-signaled-preemption-04.txt

“QoS Signalling in a Nested VPN”)



- IPsec VPNs, with need for end-to-end RSVP reservations:
 - e2E reservations must be hidden/aggregated over IPsec tunnels
 - resources must be reserved (by RSVP) in the Diffserv Cloud for traffic carried over a given IPsec tunnel (eg for Voice traffic, for Video traffic)

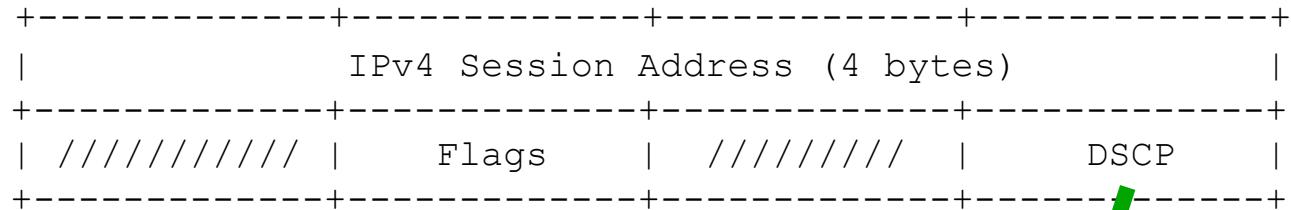
Use Case: Parallel Aggregate RSVP Reservations



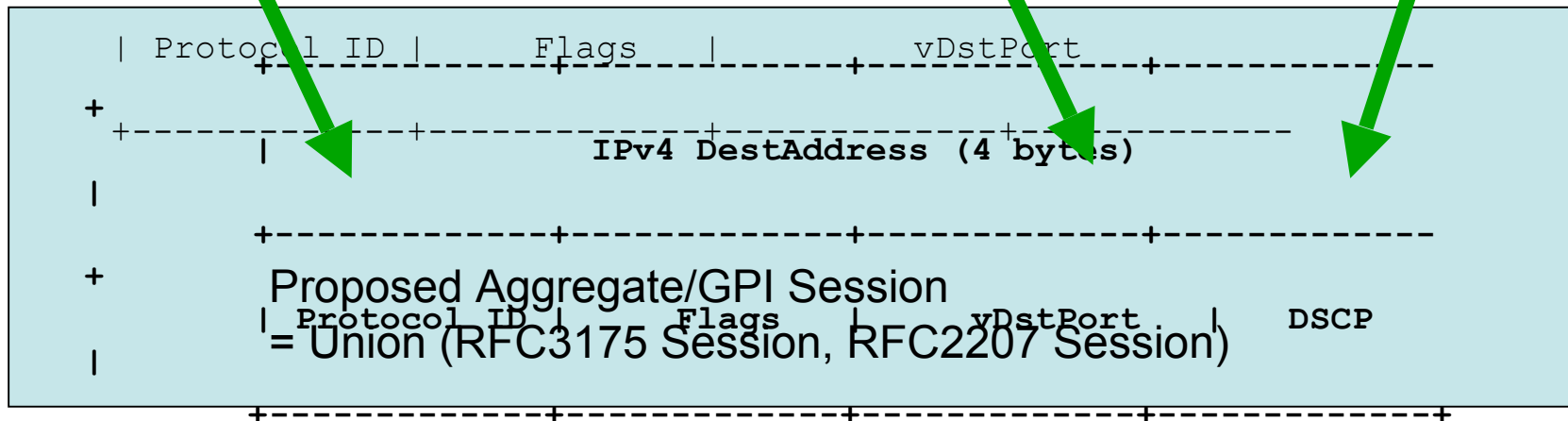
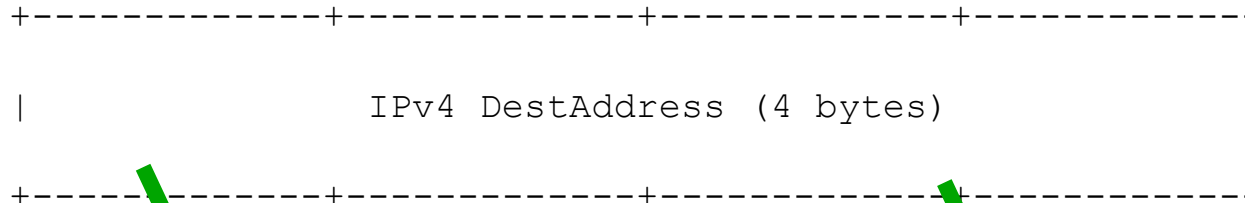
- Aggregation as per RFC3175
- Need for Multiple Aggregate reservations for a given <Aggregator, Deaggregator, DSCP> tuple

Proposed Extensions: AGGREGATE/GPI Session

RFC3175
Aggregate-IPv4
Session



RFC2207 IPv4/GPI Session



Changes 01→02

- Aggregator/Deaggregator behavior:
 - Added text:
 - Aggregator responsible for selecting/maintaining necessary Security Associations with Deaggregator
 - Deaggregator responsible for mapping of end-to-end reservation onto aggregate reservation (in line with selection of Security Association by Aggregator)
- handling dynamic SPI/Security_Association updates:
 - Improved Text, moved to main body
- Updates to Security Considerations to start addressing comments from Security Area review

Next Steps

- Complete Review by Security Area
- Address review comments (simplification by removal of SPI from reservation?)
- Then submit as TSVWG Working Group document