

# NV03 Security Roundtable Discussion Summary and Next-steps

30-March-2017



# Security in the context of NV03

- Neglected.
  - There were two drafts, both have expired.
  - This is a RTG working group, as a result the expertise and focus on security has been limited. We need to do better.

# Requirements

- Need to define the context in which NVO3 is operating and what are the relevant assumptions there. Isolation on the tenant and infrastructure namespaces.
- Data plane has converged and needs to be reviewed from security aspects perspective. Need to involve SEC directorate for that.
- Requirements for control plane.
- VNI identifier space.
- Confidentiality of the data plane encapsulation. DTLS option. What does that mean for middleboxes?
- Integrity of the dataplane headers. Applicability of IPsec AH.
- Integrity of the whole NVO3 packet. Applicability of IPsec ESP.
- Multiple nested crypto transforms and their impact on each other and of resulting payload to the middleboxes.
- HW friendliness of MAC and crypto transforms.

# Discussion Outcome

- Security aspects are critical.
- Security related drafts need to be resurrected, cleaned up, merged with changes that happened in data plane, and with the outcome of control plane.
- Need to engage SEC-DIR for early reviews.