Geneve Security
Requirements
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Purpose of the document

Requirements may have multiple purposes:

1. Listing all possible security requirements in order to define a Generic Security Mechanisms for Geneve.
   a. Generic does not mean necessarily new, but it means it can be applied in every case

2. Listing the a comprehensive list of security requirements that enable a network administrator to determine if its deployment of Geneve is secured.
   a. Deployment specific security mechanism may be based on assumptions, re-use a given technology already in place…. But provide the expected security.
   b. Typically using DTLS / IPsec between NVE is likely to secure the Geneve overlay for 90 % of the deployment but is limitative for the remaining 10 %.
Purpose of the document

The current document addresses 1, but partly not 2.

Requirements are listed given the threat to mitigate.

- Leave the specific deployment to define which requirements applies given the threats he wants to mitigate (Policies).

Requirements may also depends on additional policies (e.g. per-flow policies), deployment considered (e.g. the presence or not of GTN), the usage of options....

- This needs to be specified so a network architecture get the requirements that applies to its current setting.
Purpose of the document

We will re-organize the document providing for each Requirement the context it applies or not.

Conditions:

- Requirement A
- ...
- Requirements N

The message over all is that most deployments can already secure their Geneve overlay without the design of a Generic Geneve Security Mechanism.
Inconsistencies with draft-ietf-nvo3-security-req.

With the given structure (Condition, Requirements) versus (Requirements) may end in apparent inconsistencies:

- Condition is implicitly mentioned with a MAY
- Explicit Condition may result in MUST / SHOULD

This will result in only an apparent inconsistencies, but currently we did not notice inconsistencies between the drafts.
Position with draft-ietf-nvo3-security-req.

Geneve is a subset of NVO3 and NVO3 security requirements should not be repeated in Geneve security requirements.

Given the status of draft-ietf-nvo3-security-req we would like guidances on:

- Providing a self contained document
- Avoiding overlaps between the two documents.
Thanks!