Network Configuration Protocol (NETCONF) Proxy

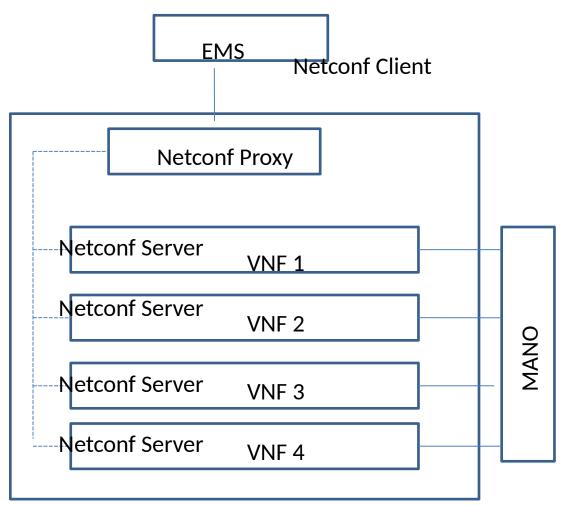
draft-wangzheng-netconf-proxy-00

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Motivation & Scenarios

- This document proposes a NETCONF Proxy mechanism.
 - The proxy can acts as an intermediary between manager and target device.
 - The client can set up a NETCONF session to a target through a NETC ONF Proxy.
 - The mechanism allows the client to subsequently direct NETCONF r equests to the server, to receive responses, and to subscribe to noti fications from the server.
- It would be useful when a client does not have direct network access to a target host.

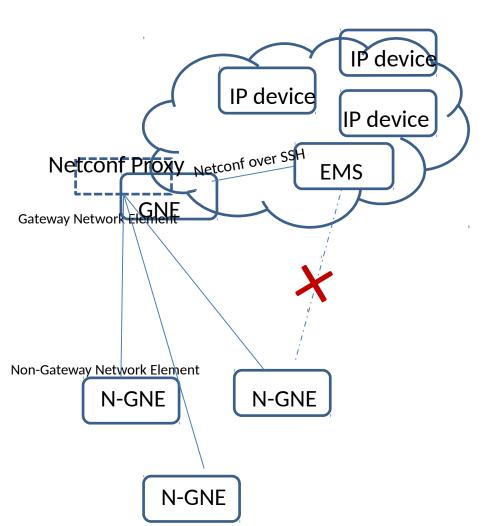
Motivation & Scenarios: VNF Scenario



- •EMS is connected to Netconf Proxy through public network;
- •Netconf Proxy is connected to all VNFs through private network;
- Netconf Proxy act as a pass-through for VNFs;
- •EMS perform configuration of all VNFs through Netconf Proxy.
- •Support for aggregated managed VNFs.
- •Can reduce the management resources (like IP resources, bandwidth, etc) of large-scale management activities.

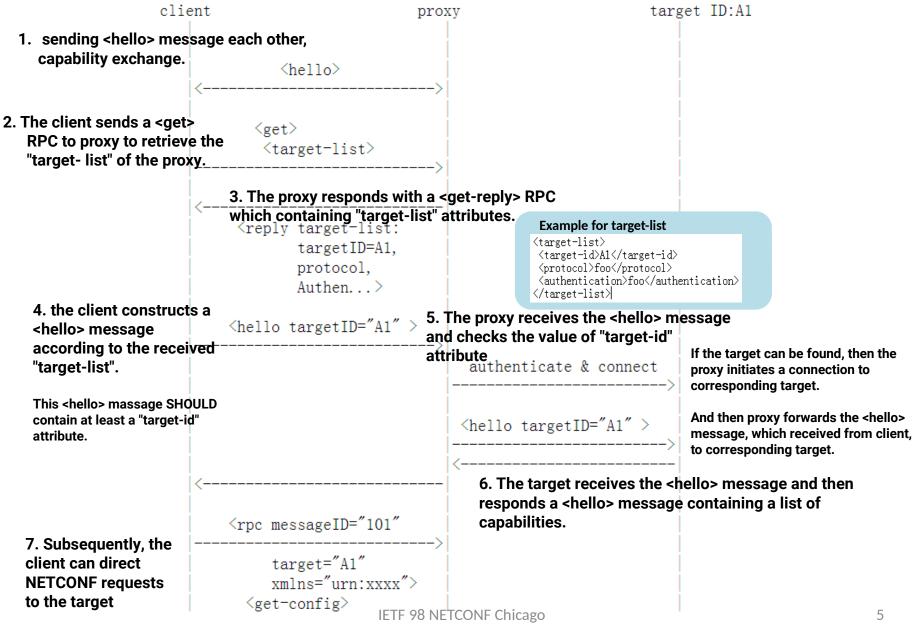
Motivation & Scenarios: Cloud Center Scenari

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- •Netconf Proxy located in the gateway network element (GNE);
- •Cloud Center EMS is connected to Netconf Proxy through Netconf over SSH;
- •The transport protocol between GNE and N-GNEs is some private protocol;
- •The N-GNEs are not IP devices, therefore, the EMS cannot be aware of the address of N-GENs,
- •and the N-GNEs are not supported NAT.

Solutions



Next Steps

- The authors appreciate thoughts, feedback, an d text on the content of the documents.
- And then prepare another version.