MAC move/flush over Geneve encapsulation

draft-boutros-nvo3-mac-move-over-geneve-00

Sami Boutros

Jerome Catrouillet
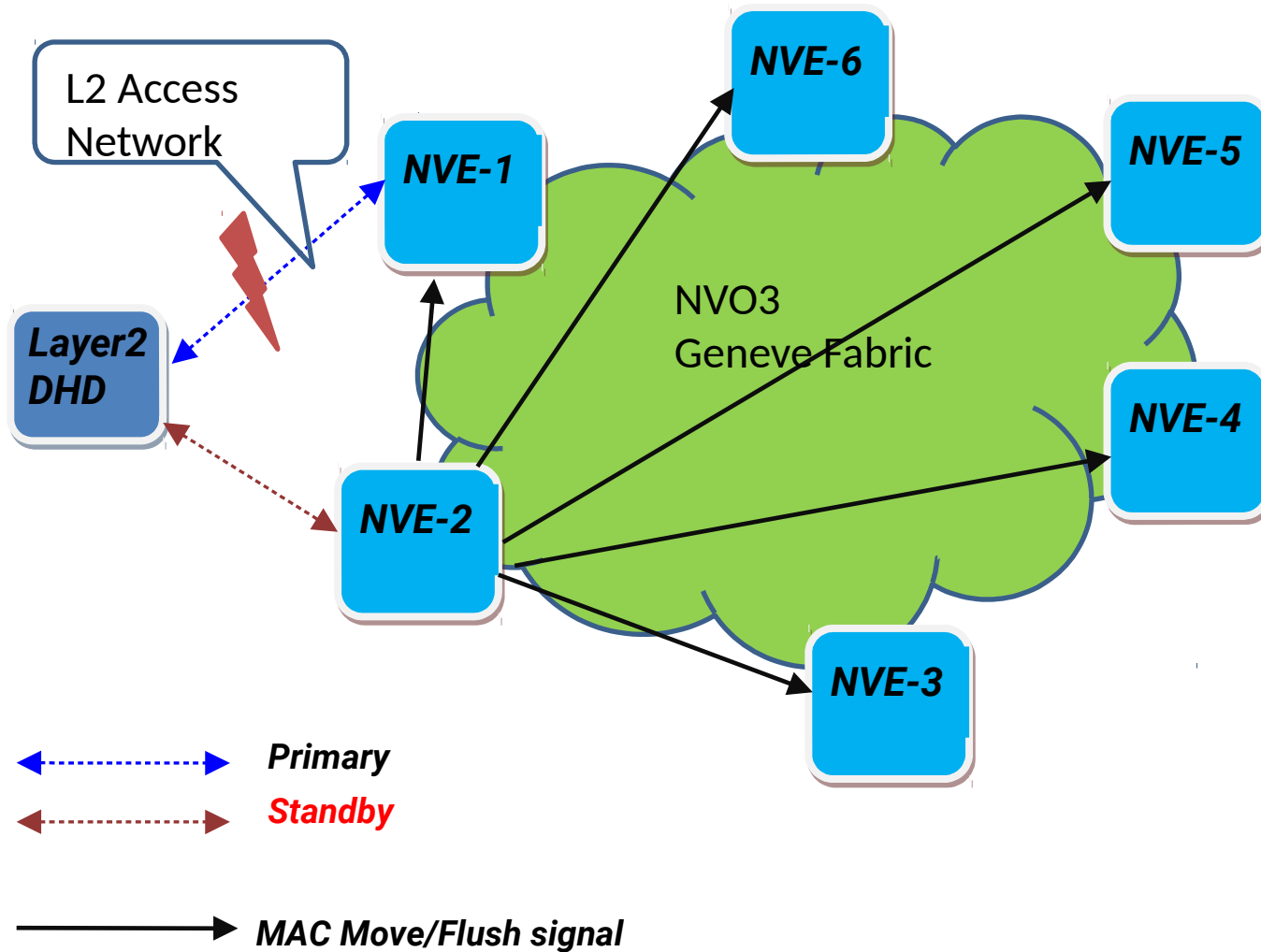
Ankur Sharma

Vmware

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MAC Move/Flush signaling – use case

Why do we need MAC Move/Flush?

- An inband data plane OAM mechanism for MAC flushing over GENEVE tunnel.
- Faster convergence on failover to move or flush MAC learned in data plane from active to standby node.

MAC Move/Flush signal

- New GENEVE option TLV.

- Sent on failover by backup NVE over the GENEVE Tunnel for the L2 logical segment identified by the VNI number to move or flush the MACs learned via the old active NVE.

- Receiving NVE sets the ACK bit in the response

- In absence of ACK, sender retries 3 times at one second interval.

- An ACK receipt with higher sequence is implicit ACK for all lower sequence sent.

Next steps

- Seeking comments?

Thank you