RoE packet and flow_id

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RoE Header and flow_id

❑ The RoE header flow_id serves for multiplexing purposes between a SA-DA pair – e.g. multiple antennas behind one MAC address..

❑ The flow_id has no "routing function" at Ethernet layer – it is only interpreted by the endpoint applications identified by an SA-DA pair.

❑ This implies each SA-DA pair has their own "flow_id number space".

flow_id semantics for RoE data packets

❑ flow_id identifies a flow, which can be:
  – a single AxC; or
  – a group of AxC.

❑ flow_id assignment is done:
  – Out of band; or
  – Using the RoE control channel/protocol.

❑ Group content known by the endpoint applications and assigned/configured:
  – Out of band; or
  – Using the RoE control channel/protocol.

flow_id semantics for RoE control packets

❑ Assumption: RoE control packets get terminated at the CPU.

❑ RoE control packets may be specific to a data flow -> flow_id identifies the flow.
  – Same SA-DA number space rules apply as for the RoE data packets.

❑ If RoE control packets are meant for all data flows and other configuration between the SA-DA pair:
  – Control packet (sub)type identifies when flow_id is flows specific and when not.

Motion

- RoE header flow_id number space is between an SA-DA pair as described in tf3_1508_korhonen_flow_id_1a.pdf page 2.

- John Doe making the motion
- Seconded by Jane Doe

- Technical motion (>=2/3)

- Yes: 0, no: 0, abstain 0

Motion

- RoE header flow_id defines a single flow or group flow as described in tf3_1508_korhonen_flow_id_1a.pdf page 3.

- John Doe making the motion
- Seconded by Jane Doe

- Technical motion (>=2/3)

- Yes: 0, no: 0, abstain 0

Motion

❑ RoE header flow_id interpretation for control packets depend on the control packet (sub)type as described in tf3_1508_korhonen_flow_id_1a.pdf page 4.

❑ John Doe making the motion
❑ Seconded by Jane Doe

❑ Technical motion (>=2/3)

❑ Yes: 0, no: 0, abstain 0