



Flow Compression

draft-minaburo-schc-flow-compression-00

Authors:

Ana Minaburo <anaminaburo@gmail.com>

Laurent Toutain <Laurent.Toutain@imt-atlantique.fr>

Context



- SCHC compress packets not flows
- Flows has dependency information among packets
- Updating some TV during the flow lifetime is needed

SCHC Process



- SCHC performs packet independently of each other
 - No context update
 - No memory
 - Header fields with a changing behaviour are not optimally compressed

- SCHC needs a high knowledge to define Rules

SCHC flow compression



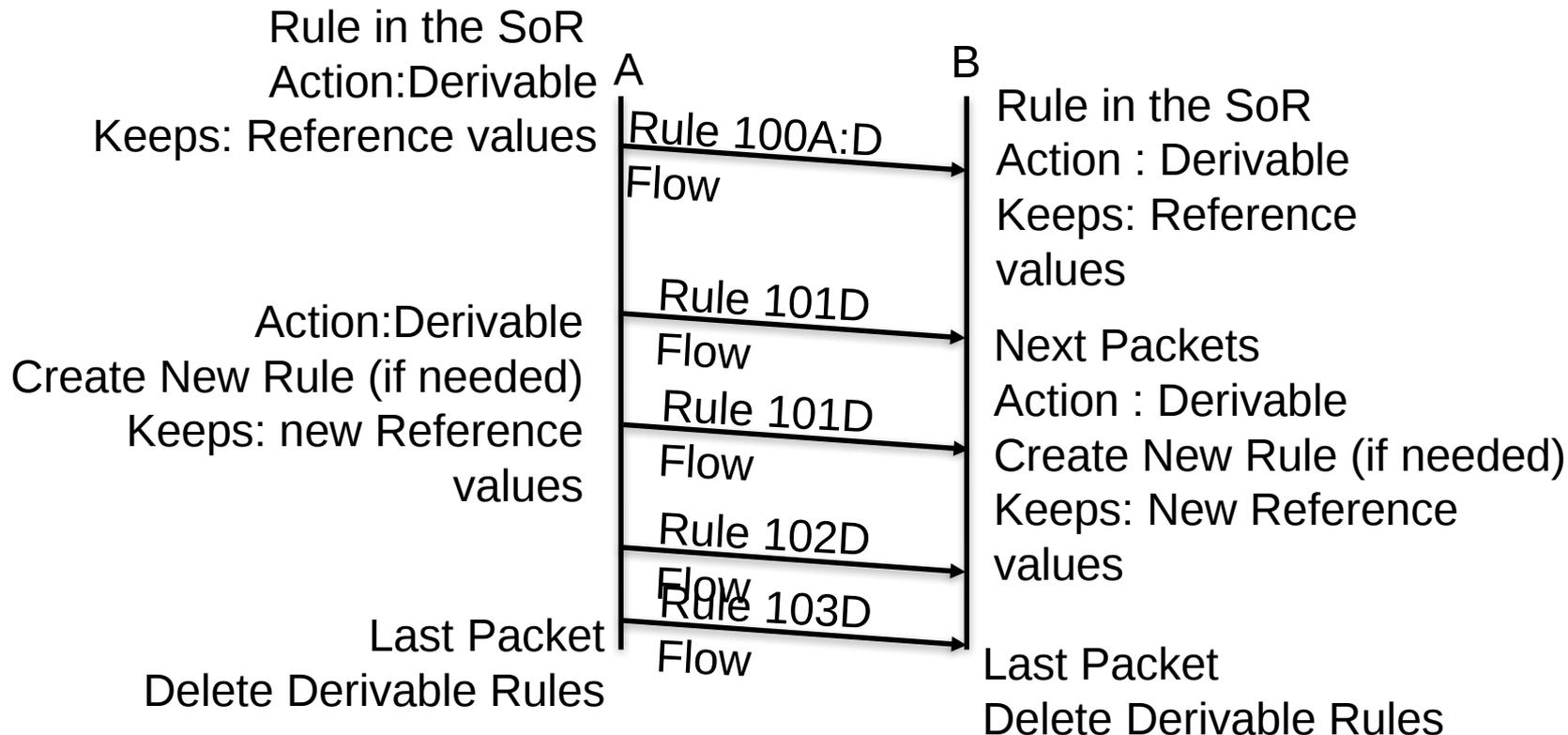
- Flows are defined by:
 - A sequence of packets with common properties
 - Depending information among packets to keep control
 - Changing values of these fields in each packet of the flow
 - Ex: Sequence Number, Timestamp, flow label
- To optimize the compression
 - Access Control draft helps in updating the TV evolution
 - Use the Yang-model management to optimize compression of the changing fields
 - Keep reference values
 - Add an Action
 - Create a new type of Rules called Derived Rules

Action: Derivable



- Action. Indication in the Rule to perform some operations
 - Derivable:
 - Same Field Descriptors than the based-Rules
 - Use of MSB and boundaries to reuse Derived Rules
 - Keep values updated
 - Keep reference values
 - Rule Manager: decides to create, delete or update a derived Rule
 - At the end of a flow compression all the derived Rules are deleted

Action: Derivable



Comment



- Questions?