



Discussion on Architecture

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SCHC header

SCHC Header carries information to allow SCHC entities to work correctly. Information will focus in this document is:

- SCHC.NH indicating the lowest protocol identifier, used if the layer above points to SCHC compression. The above layer value is replaced after decompression with the value of SCHC.NH.
- SCHC.ses indication the session
- SCHC.CRC to protect the SCHC header and the associated payload.

RuleID space are independent, and if a single rule is defined, its size is 0

Layered SCHC

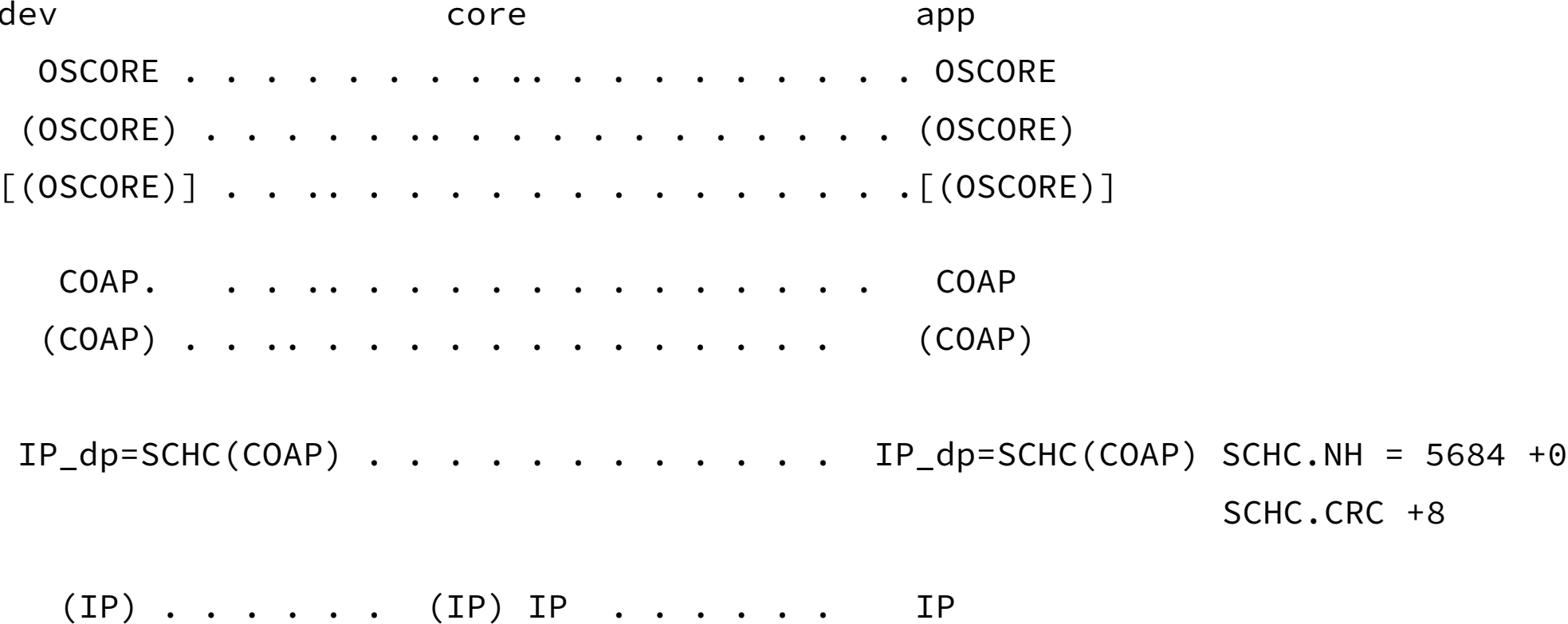
As described in RFC8824, several instances of SCHC can be put together.

For instance :

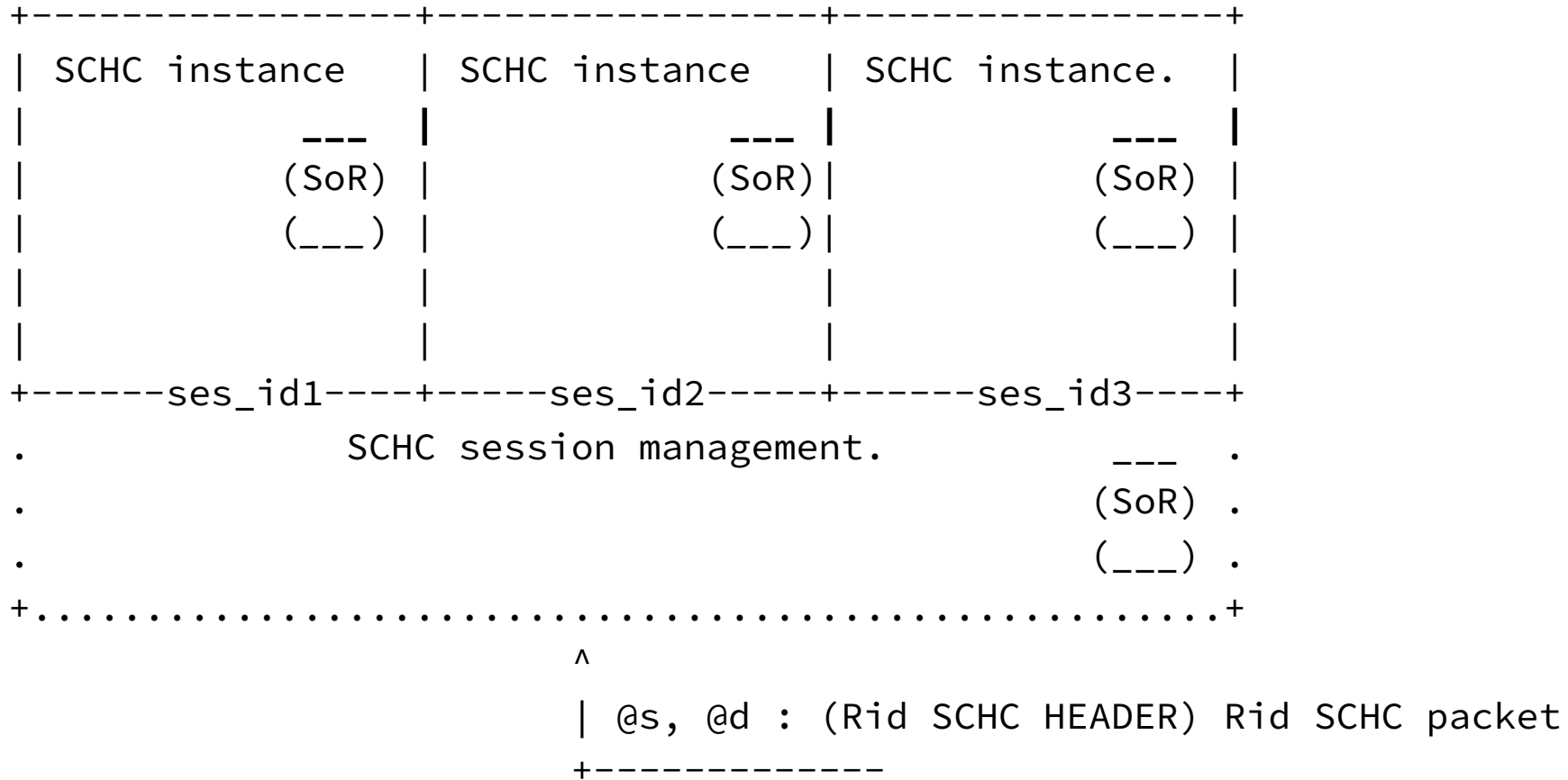
- OSCORE, to compress between the device and the application the inner CoAP message
- COAP, to compress between the device and the application the outer CoAP message
- network, to compress in the LPWAN network the IP/UDP headers.

Rule ID space are independent

Layered SCHC



Architecture



Management

- Specify in SCHC Header
 - Not optimal need at least a bit in each message
- Specify in the Rule
 - Compression, Fragmentation, No Compression
 - Management:
 - Use link local addresses to prevent other to manipulate the rules
 - Define SCHC compression rules for:
 - Key establishment
 - Rule management
 - RuleID are not imposed.