

Enhanced DetNet Data Plane Requirement

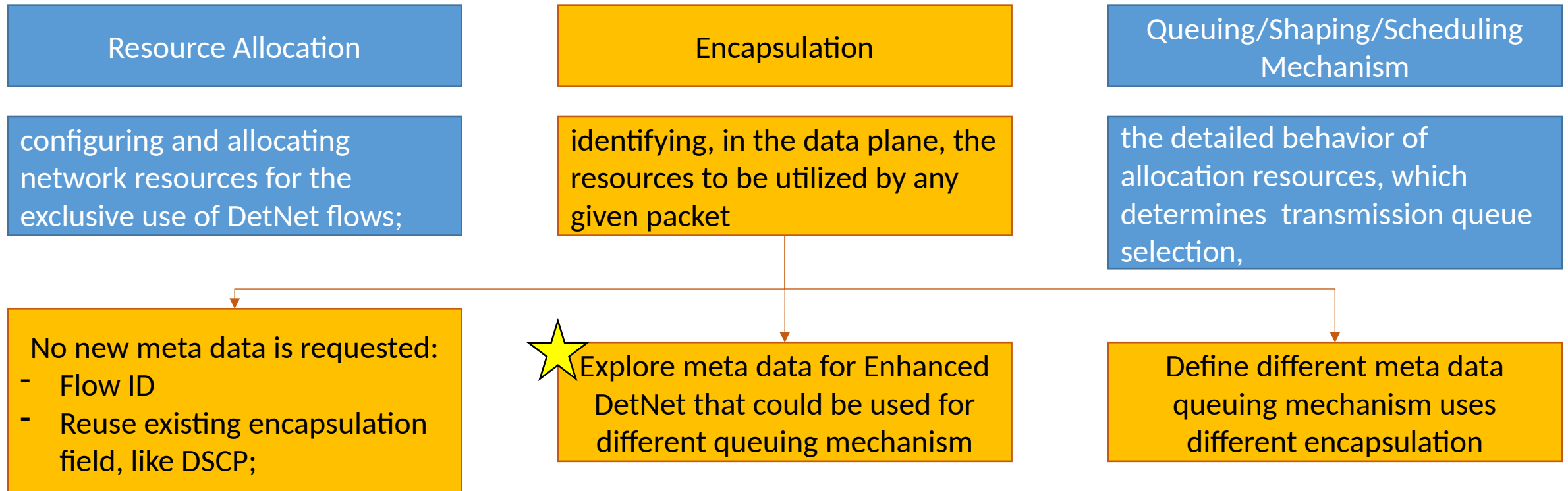
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Motivation

- As suggested by WG in IETF 114/115, the document of draft-yzz-detnet-enhanced-data-plane is supposed to be split into 2 documents for two separate topic:
 - ✓ Enhanced DetNet Data Plane Requirement
 - ✓ Enhanced DetNet Data Plane Solution

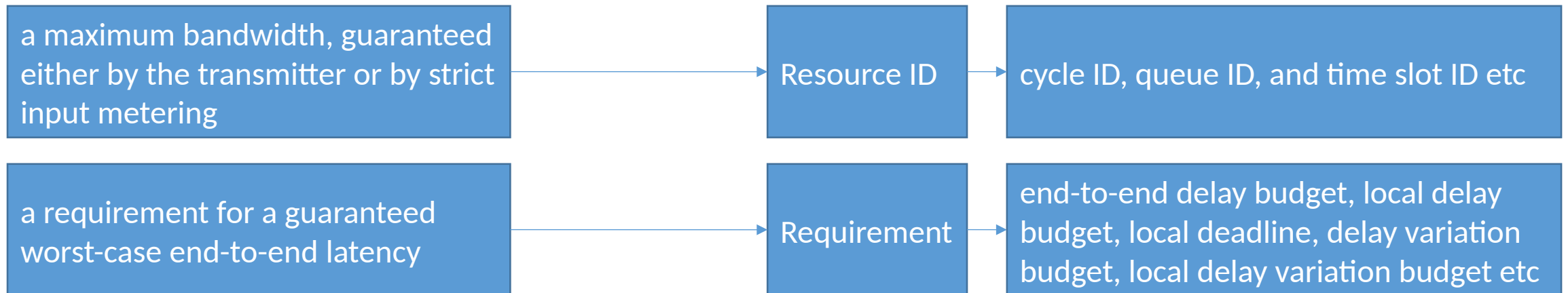
Enhanced DetNet Data Plane Requirement

As defined in RFC 9320, Enhanced DetNet services of bounded latency and zero congestion loss depends upon the following 3 parts of mechanism:

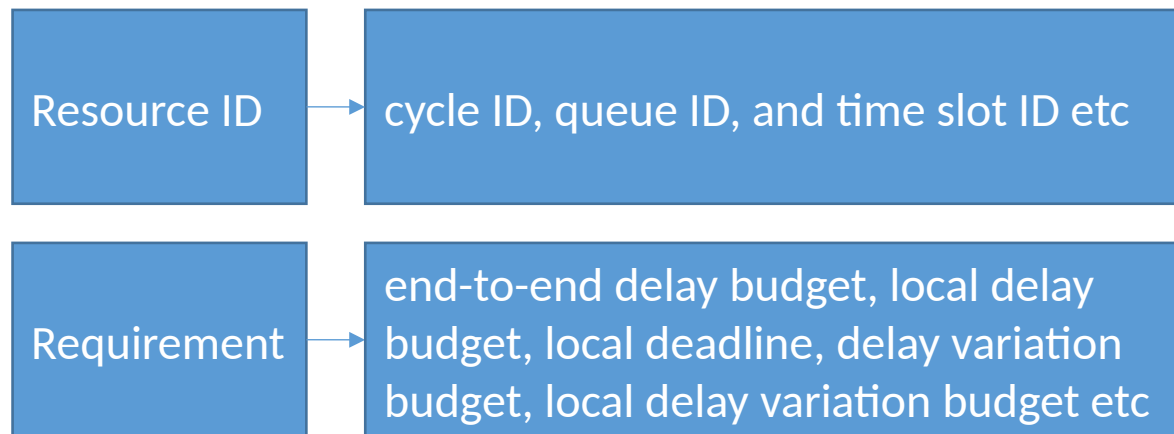


Enhanced DetNet Data Plane Design

- As explained in RFC8655, DetNet flows are notably characterized by
 - In order to provide identification that could be used for different queuing mechanism, DetNet data plane could be enhanced by carrying a new defined metadata information in DetNet service packets: **Bounded Latency Information (BLI)**



Enhanced DetNet Data Plane Design cont.



For



Various mechanisms defined in existing documents and future mechanisms:

- *draft-eckert-detnet-tcqf-00*
- *draft-joung-detnet-asynch-detnet-framework*
- *draft-eckert-detnet-mpls-tc-tcqf*
- *draft-dang-queuing-with-multiple-cyclic-buffers*
- *draft-peng-detnet-deadline-based-forwarding*

...

Next Step Proposal

- Split the document
- Invite authors of other document to review the document and give comments
- Suggest to have a DT to design the data plane encapsulation

Thanks