

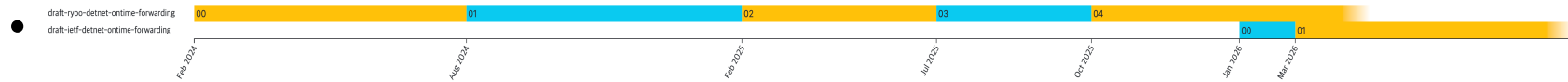
# On-time Forwarding with Push-In First-Out (PIFO) Queue

draft-ietf-detnet-ontime-forwarding-01

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# Background

- History



- Goal

- Guarantee application-specified minimum and maximum end-to-end latency
- Schedule packets to meet the specified latency targets

- Taxonomy

- Flow level non-periodic bounded category

# Update

- The updates mainly address errata and reference updates based on comments received via email

\* Thank you so much for your comment, Zongpeng Du(China Mobile)

## 1) Editorial fixes

|   |   |
|---|---|
| allocated to a flow, <del>If</del> a policy is defined, such as setting a | allocated to a flow, <del>if</del> a policy is defined, such as setting a |
|---|---|

## 2) Figure description clarification

|   |  |
|---|--|
| Figure 4: Relationship between the variable delay of end-to-end and nodes | Figure 4: Relationship between the upper and lower bounds of the end-to-end variable delay and the upper and lower bounds of the node delays |
|---|--|

## 3) Reference added

|   |  |
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| Based on the draft of the taxonomy, latency-bound solutions are | According to the taxonomy defined in [I-D.ietf-detnet-dataplane-taxonomy], latency-bound solutions are |
|---|--|

|   |  |
|---|--|
| The draft of the taxonomy also defines seven suitable categories for deterministic networking as follows. | [I-D.ietf-detnet-dataplane-taxonomy] also defines seven suitable categories for deterministic networking as follows. |
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|   |
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| [I-D.ietf-detnet-dataplane-taxonomy]<br>Joung, J., Geng, X., Peng, S., and T. T. Eckert,<br>"Dataplane Enhancement Taxonomy", Work in Progress,<br>Internet-Draft, draft-ietf-detnet-dataplane-taxonomy-05, 8<br>January 2026, < <a href="https://datatracker.ietf.org/doc/html/draft-ietf-detnet-dataplane-taxonomy-05">https://datatracker.ietf.org/doc/html/draft-ietf-detnet-dataplane-taxonomy-05</a> >. |
|---|

# Issue & plan

- Issue

(\* Thank you so much for your comment, Shaofu Peng.)

- How to guarantee the packet scheduling before its maximum departure time
- Can you please add some mathematical formula, and further illustrations based on Reference Topology, in the future versions?

- Plan

- In future versions, we plan to add mathematical formulas for more detailed explanations

**Thank you**