

voxl**ink**

MikroTik
- TRAINING.RU

В очередь,
сукины фреймы,
в очередь!!!

MUoM

Mikrotik User **Online** Meeting



Queues everywhere



MUoM

Mikrotik User [Online](#) Meeting

Queues everywhere

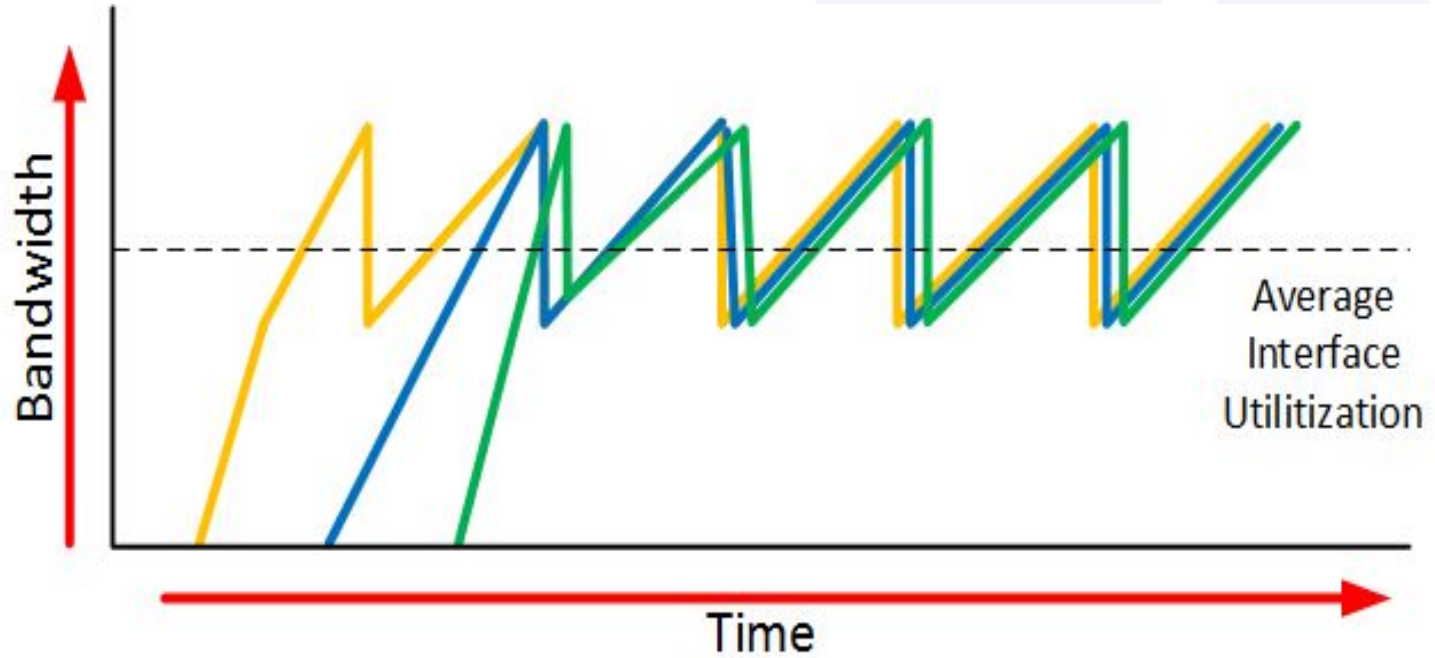


Queues everywhere

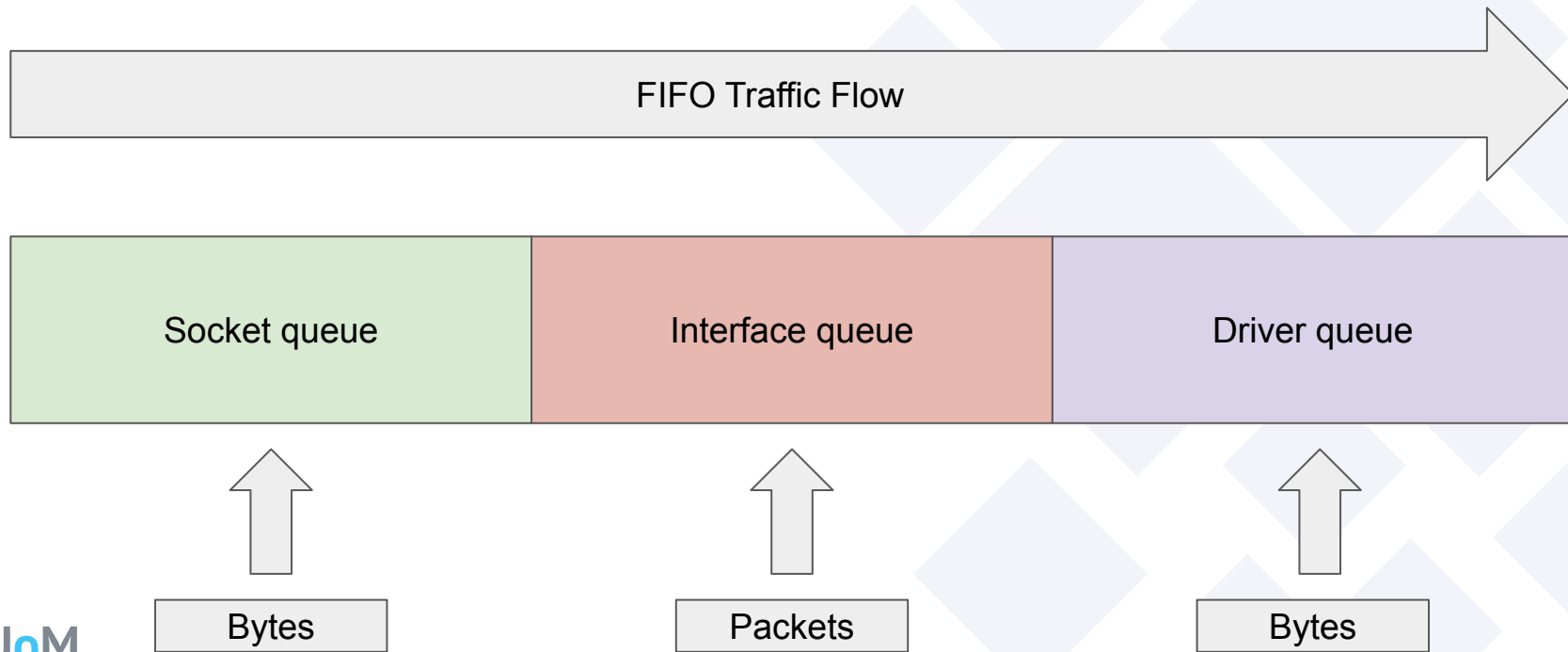
- Кадры отбрасываются начиная с самого последнего.
- Примитивная приоритезация.
- Трафик измеряется в пакетах.
- Ничего не знает о текущей пропускной способности.



Queues everywhere



Queues everywhere

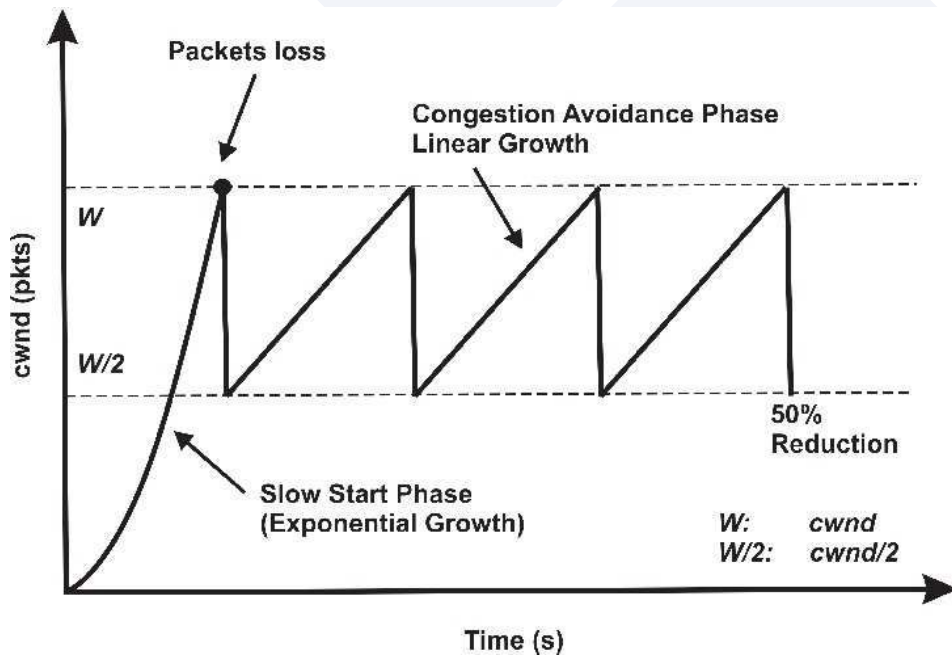


Queues everywhere

Socket queue

- Кадры отбрасываются начиная с самого последнего.
- Примитивная приоритезация.
- Трафик измеряется в пакетах.
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TCP CWND

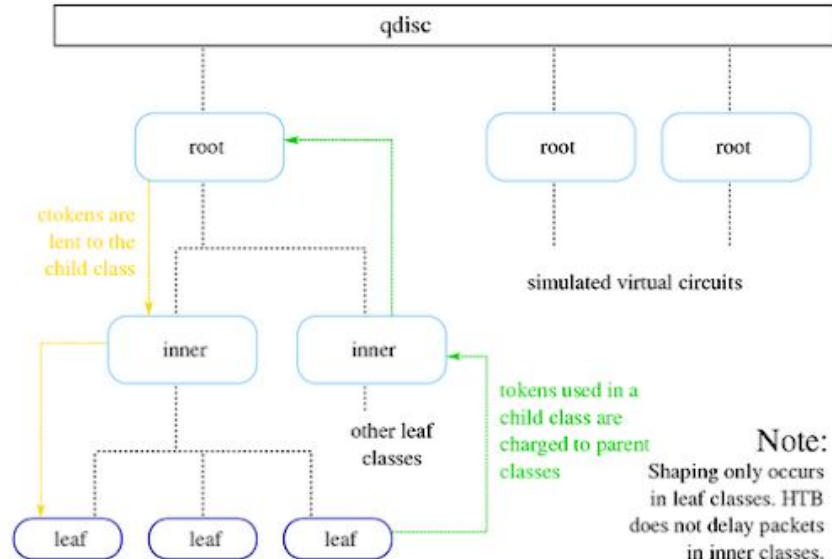


Queues everywhere

Interface queue

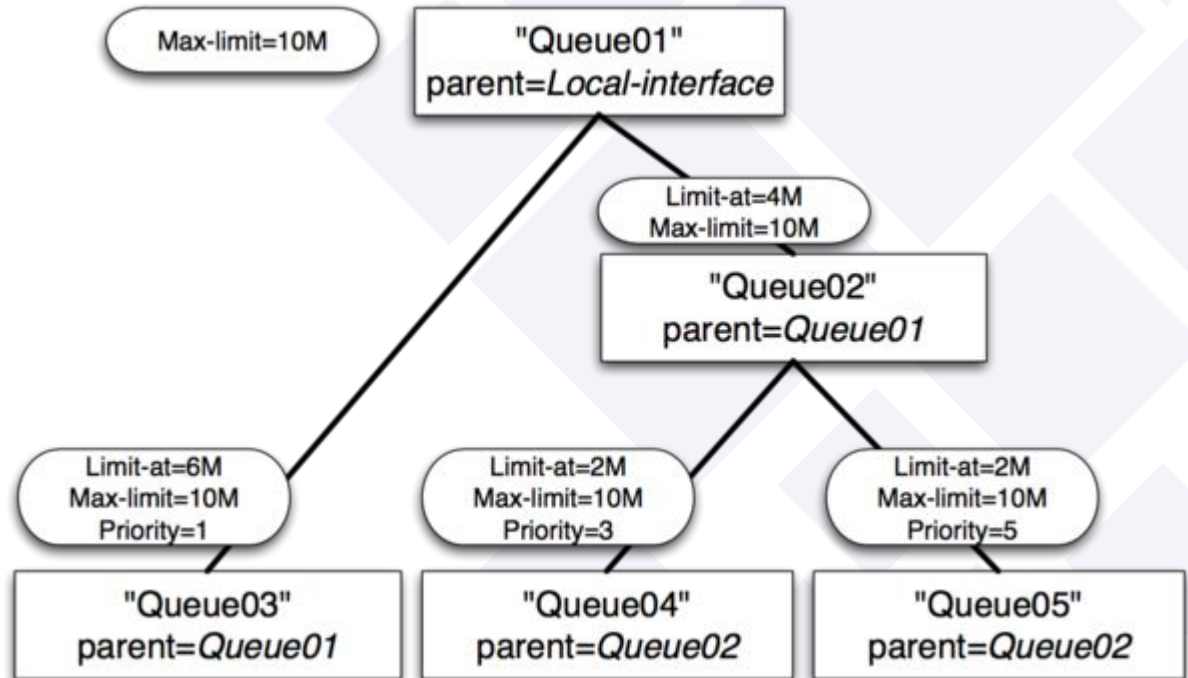
Hierarchical Token Bucket (HTB)

Class structure and Borrowing



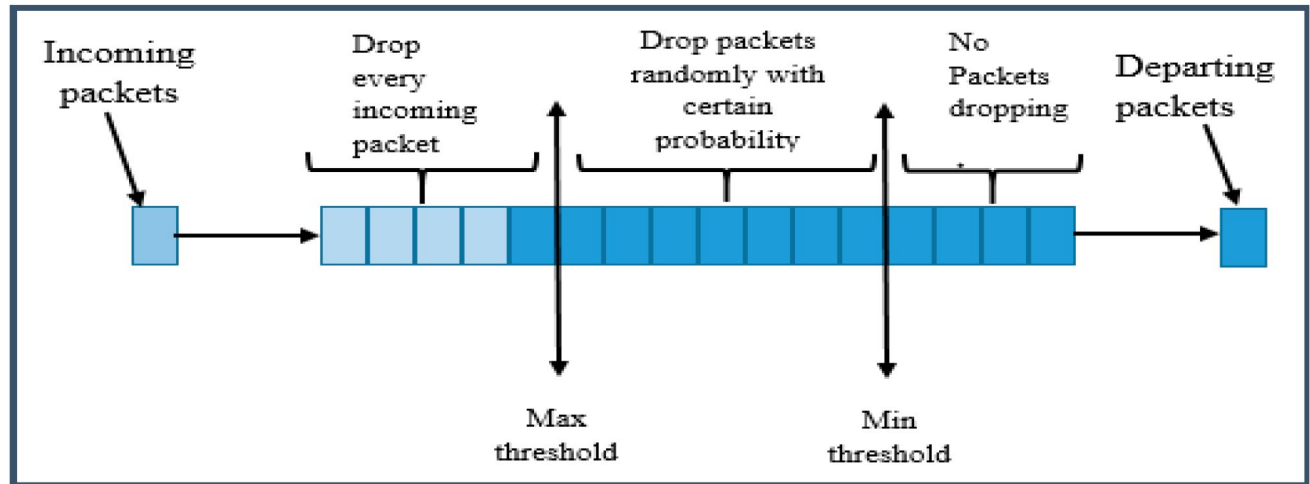
Queues everywhere

Interface queue



Queues everywhere

Interface queue



Queues everywhere

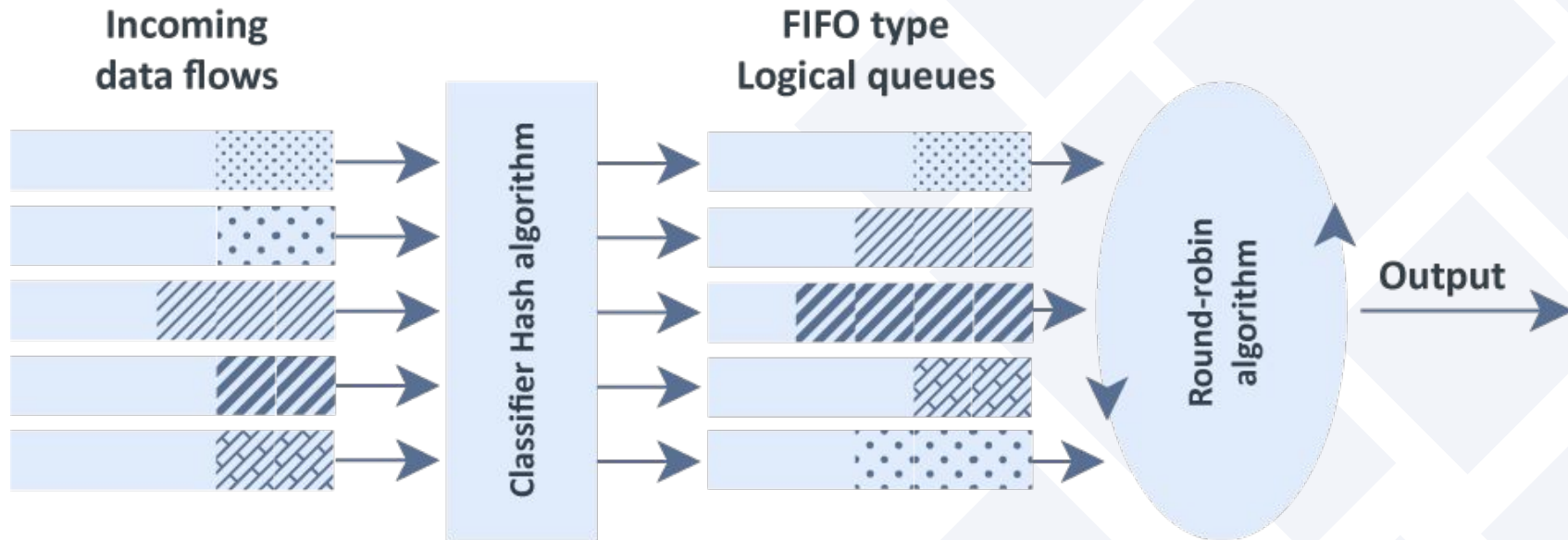
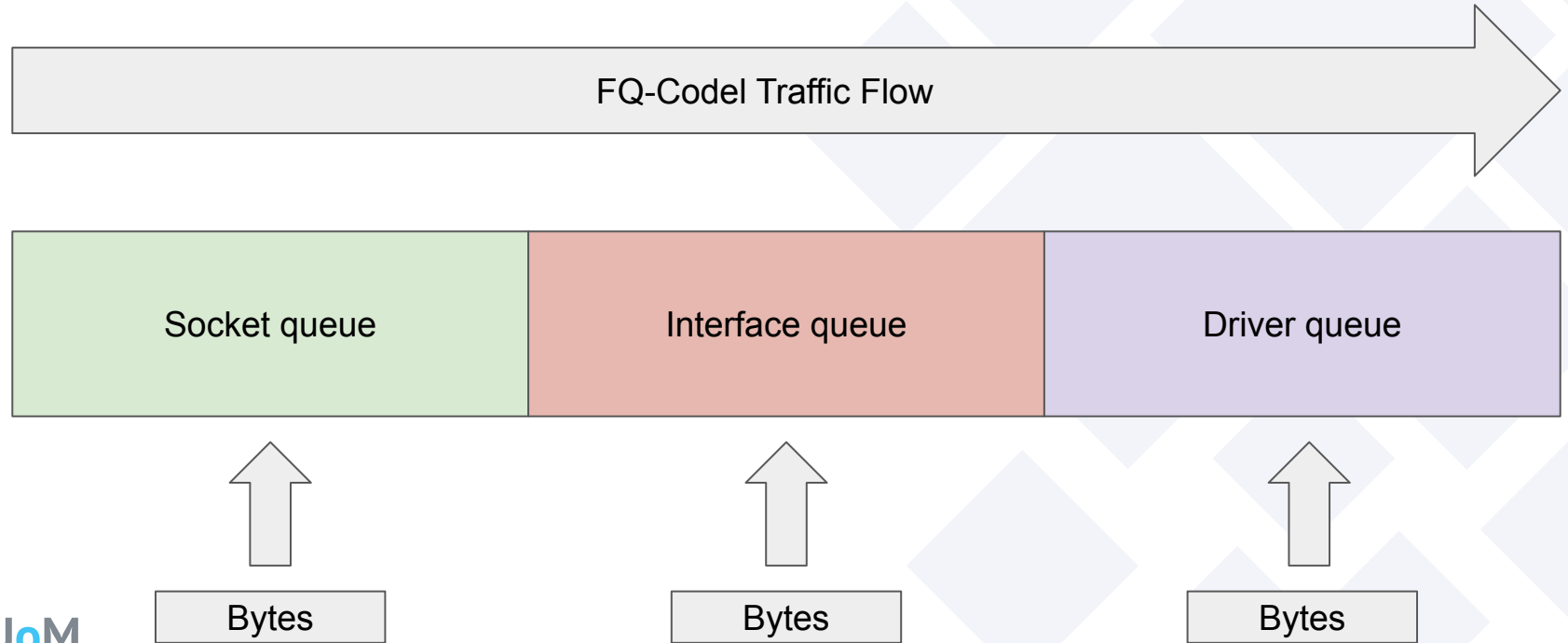
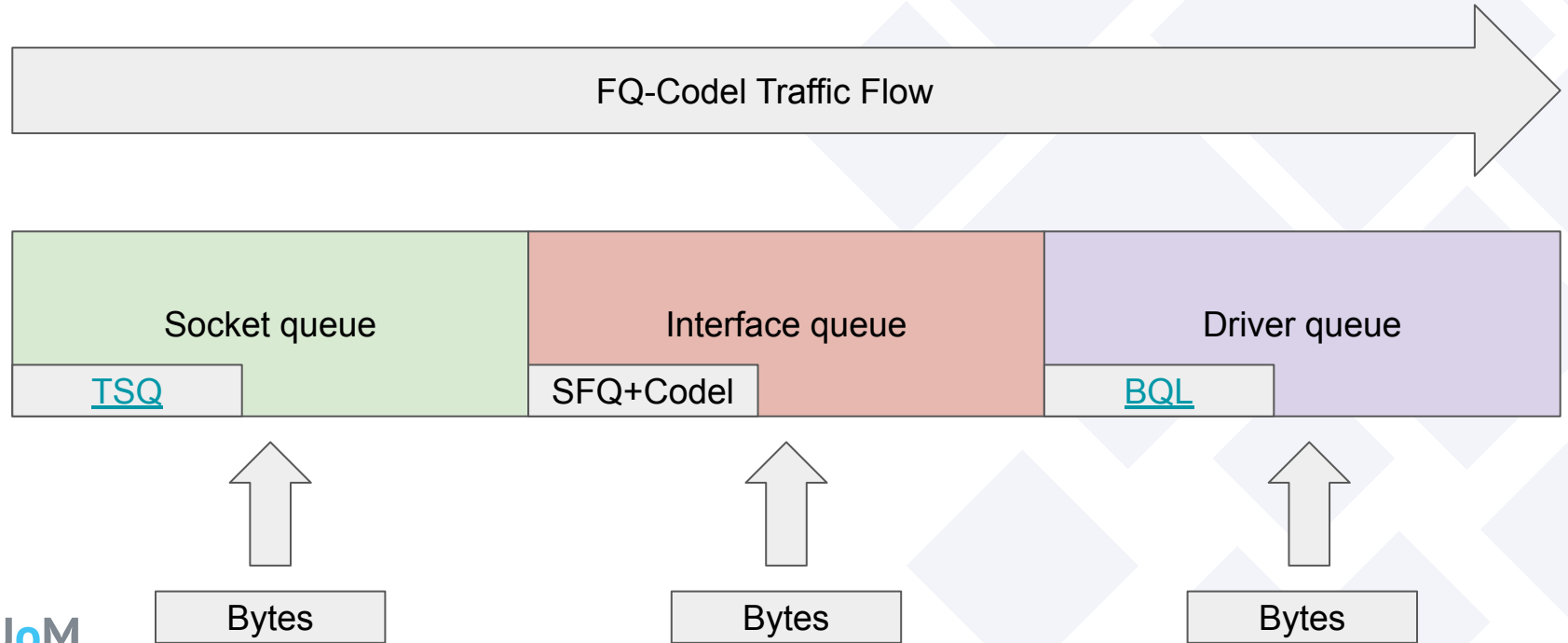


Figure 8.3. SFQ operation

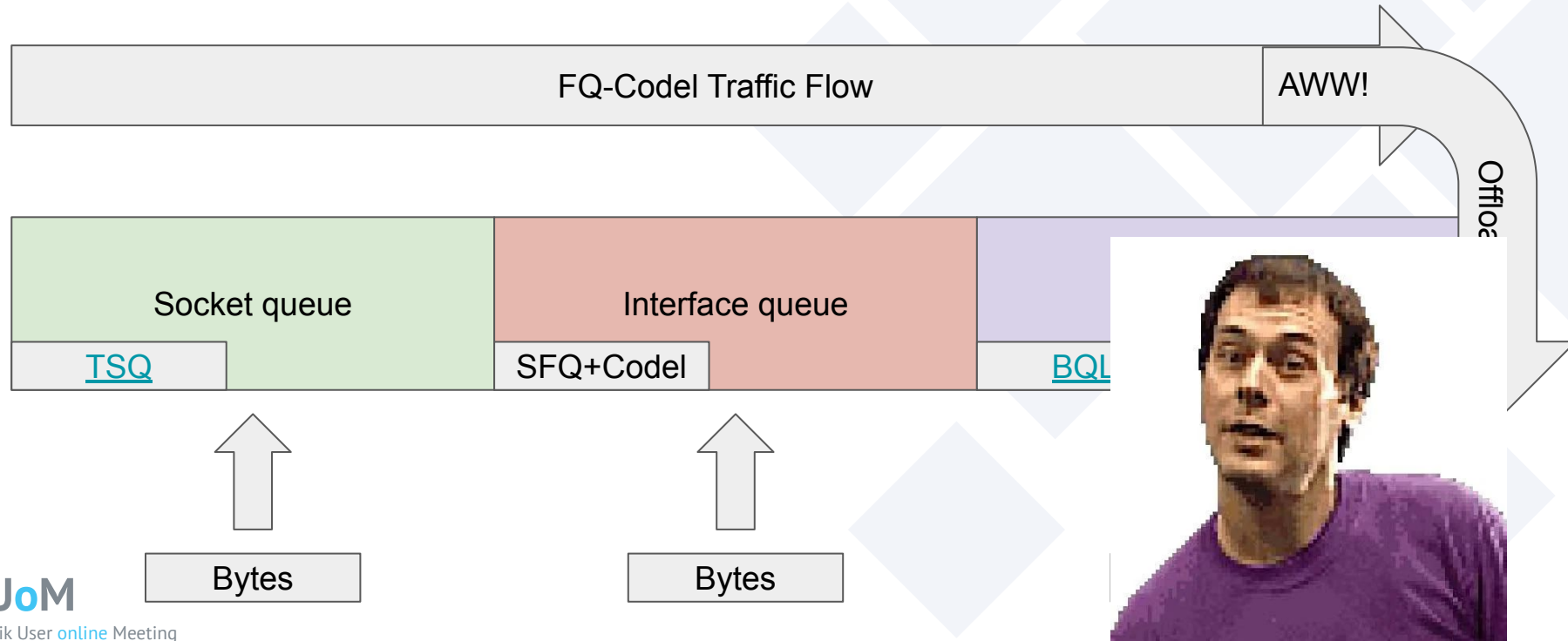
Queues everywhere



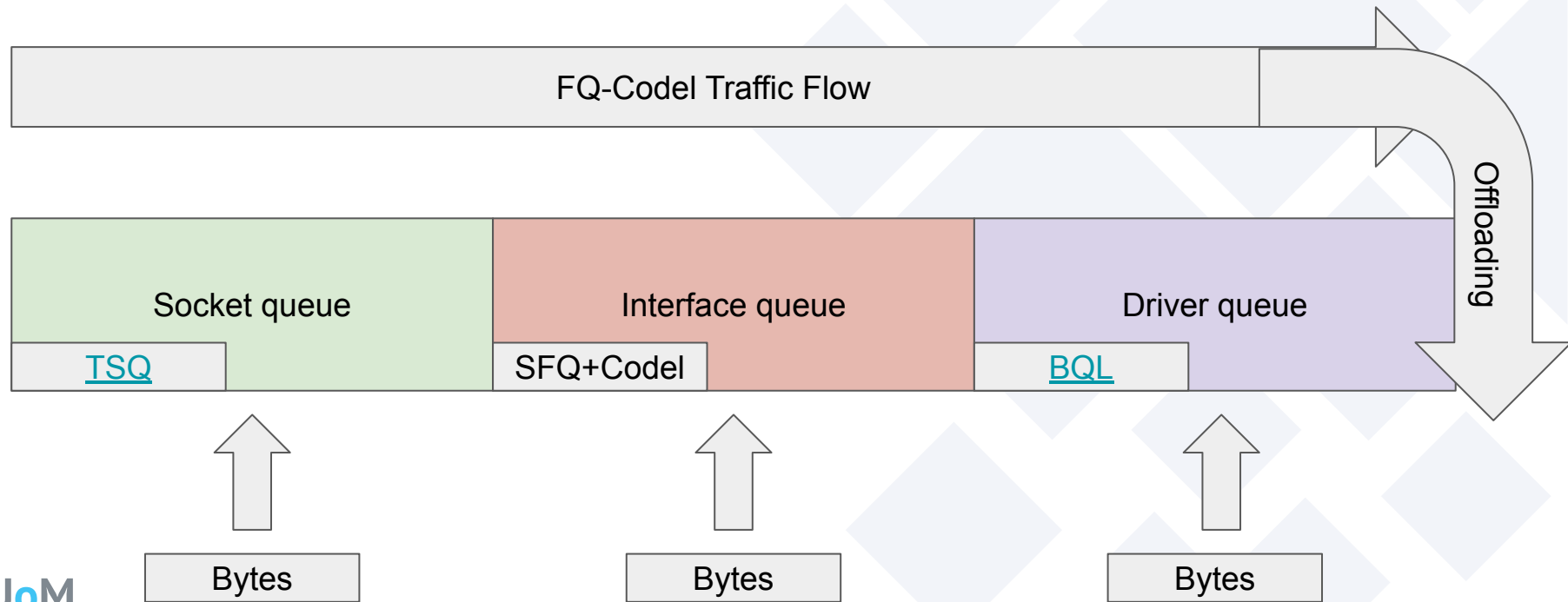
Queues everywhere



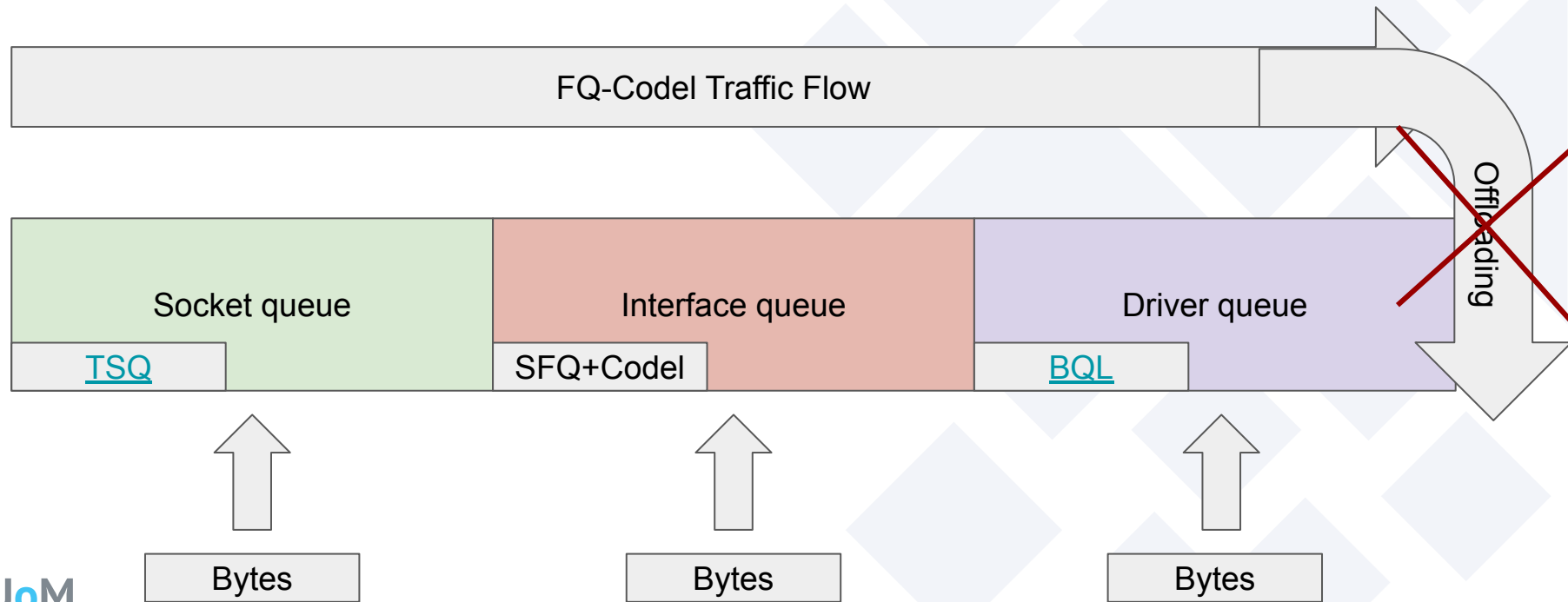
Queues everywhere



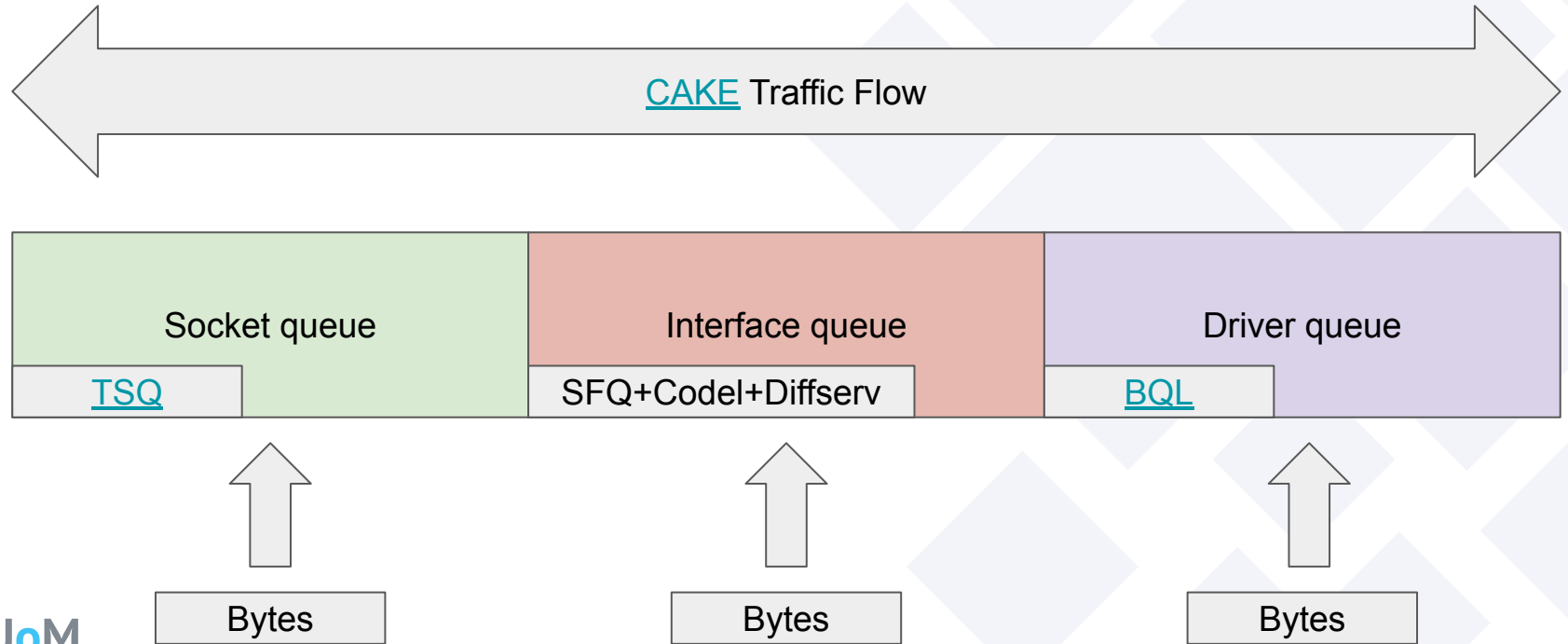
Queues everywhere



Queues everywhere



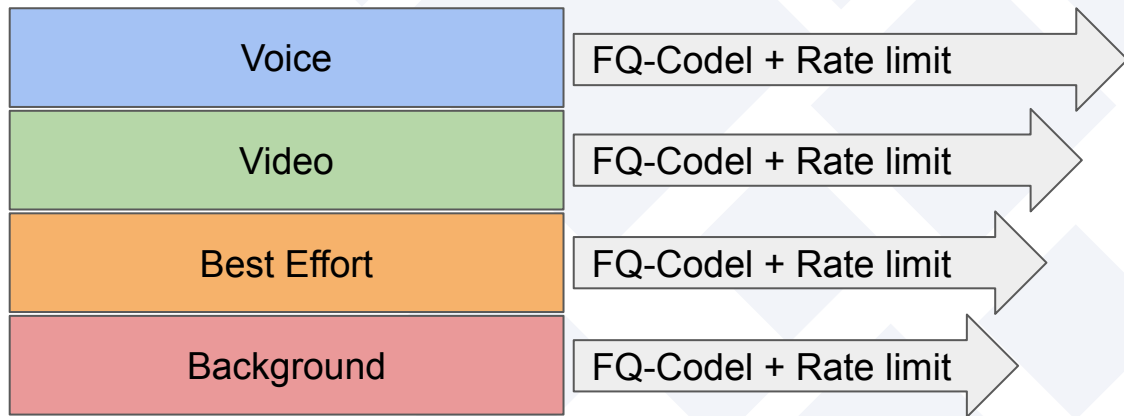
Queues everywhere



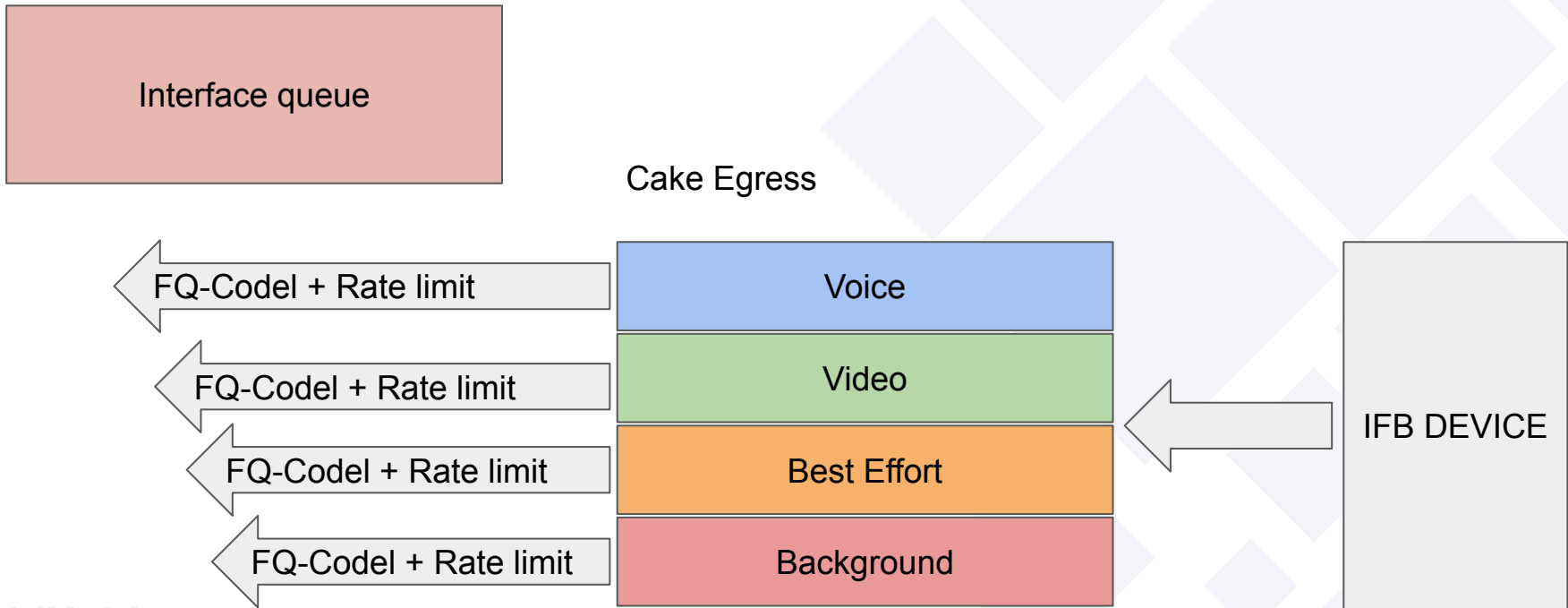
Queues everywhere

Interface queue

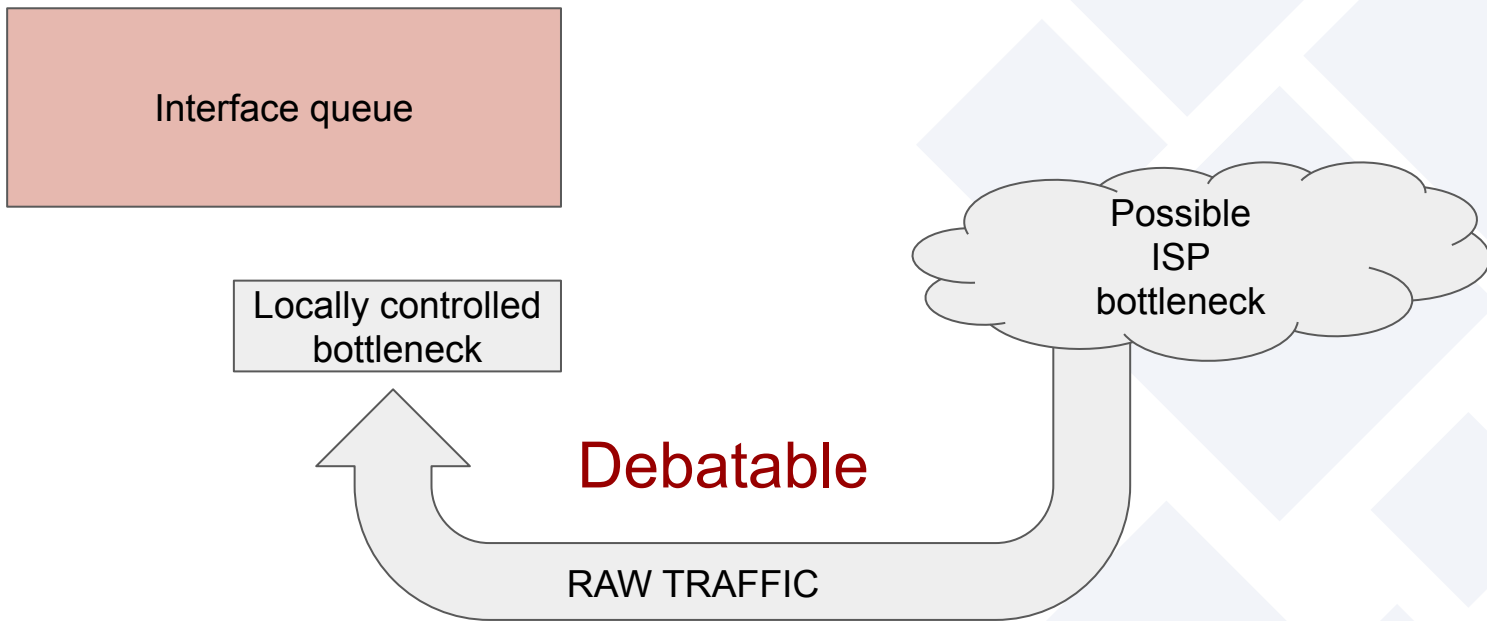
Cake Egress



Queues everywhere



Queues everywhere



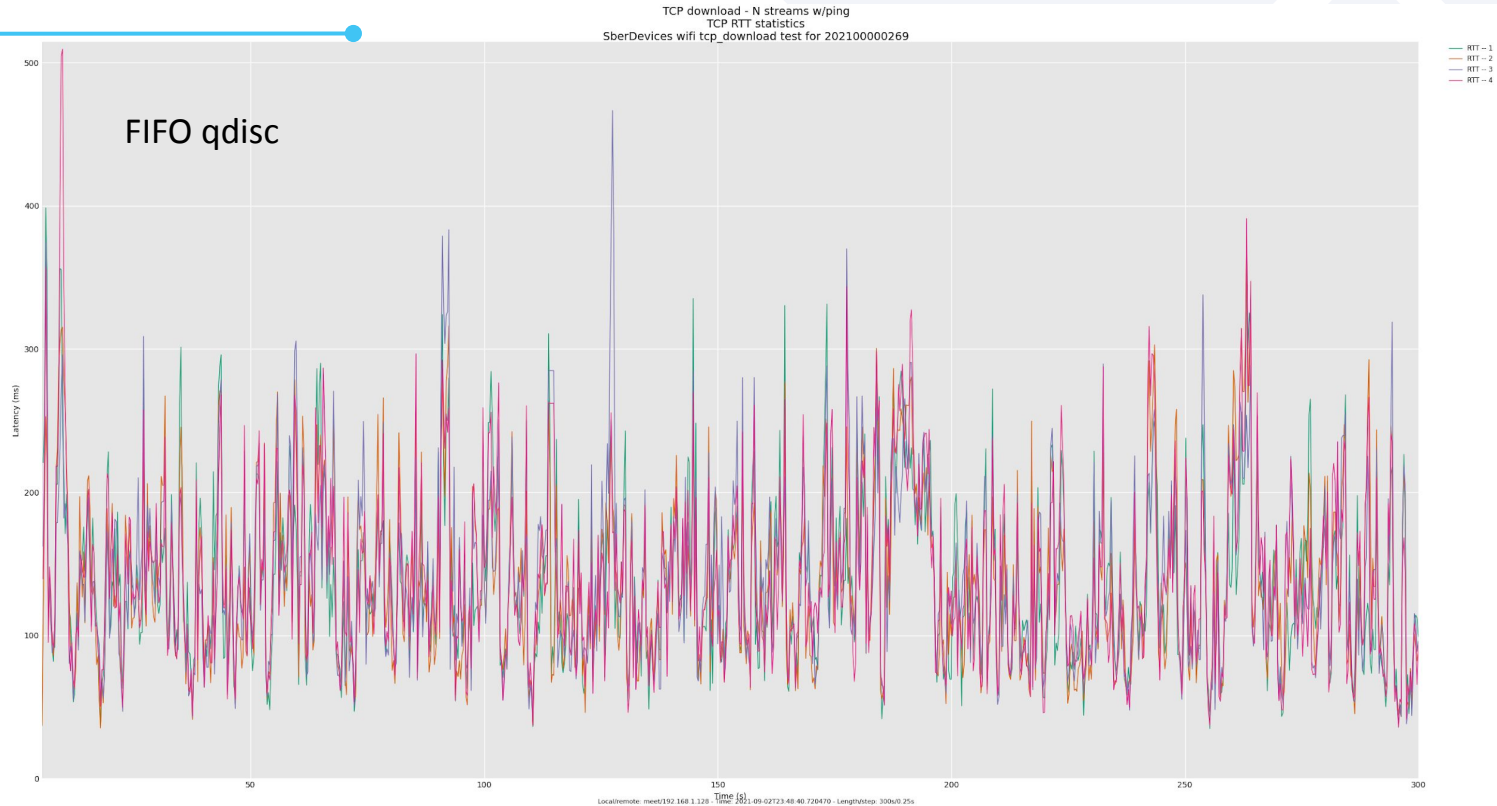


Tuning

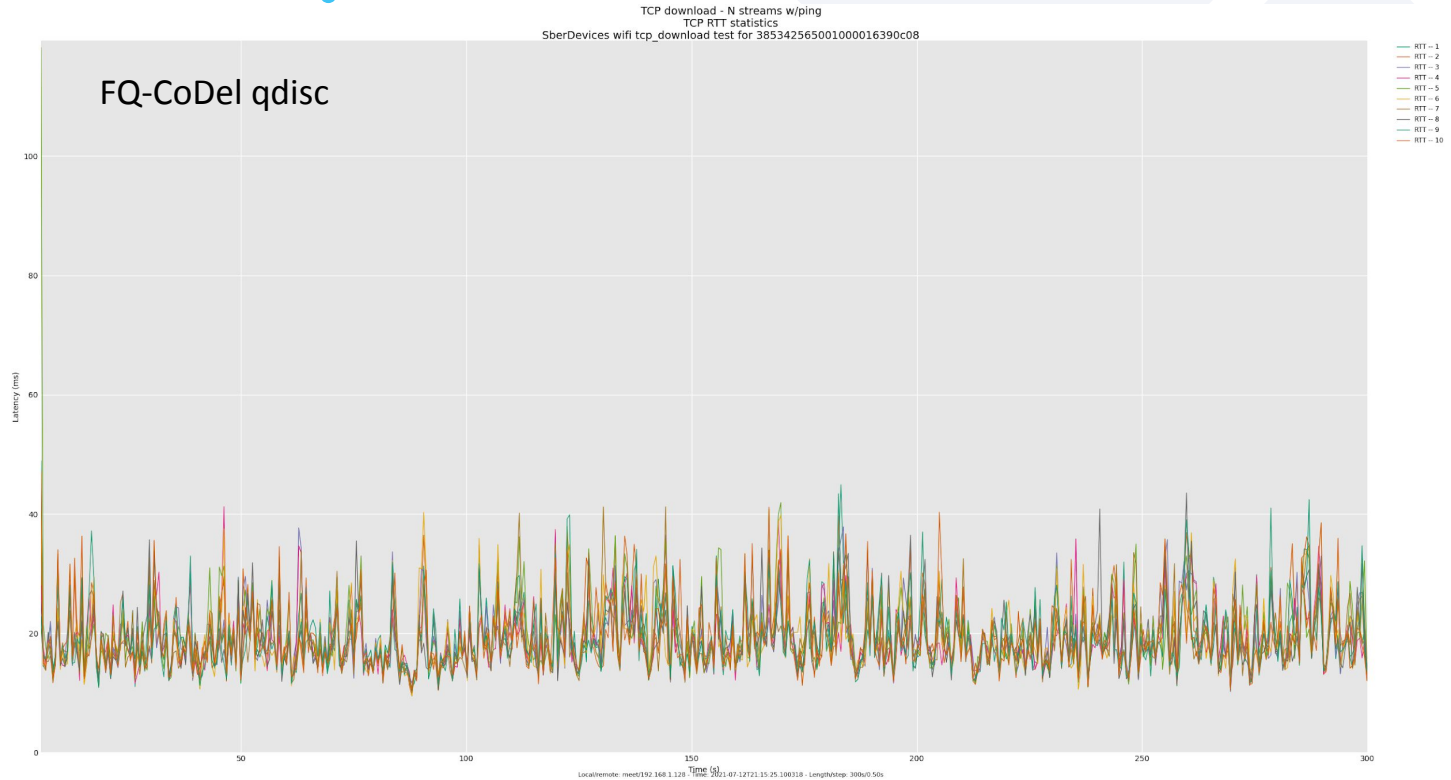
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Tuning



Tuning



Tuning



Smallest packet size (bytes)



Quantum (bytes)

VoIP bursting avoidance

Tuning



Interval (ms)



Maximum RTT (ms)

Just to make it work



Desires

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Desires

CAKE qdisc by default?



Desires

Add CAKE qdisc to QuickSet?





HomeWork

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HomeWork



- www.bufferbloat.net
- the-edge.blogspot.com
- blog.tohojo.dk
- lists.bufferbloat.net

- [Dave Taht](#)
- [Toke Høiland-Jørgensen](#)
- [Eric Dumazet](#)

Спасибо за внимание!



Буду рад ответить на все ваши вопросы
сейчас или свяжитесь со мной в
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