

# ETT metric draft

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# What is it NOT?

„The“ metric for OLSRv2

„The“ ETT metric for OLSRv2

# What is it?

- directional
- RFC5444 traffic based
- estimated travel time
- link metric

# TODO

- simplify parameters
- cleanup draft structure
- select draft track and reference types
- unicast frame-statistics (DLEP) ?

Questions?

# ETT calculation (1)

- track packet sequence number
- queue received/total packets per timeslice
- calculate sum of received/total packets

$$\begin{aligned} \text{packets}_{total} &= \sum \text{Queue}_{total}(i) \\ \text{packets}_{received} &= \sum \text{Queue}_{received}(i) \end{aligned}$$

# ETT calculation (2)

- track no-traffic periods by using NHDP Hello interval
- estimate total traffic by linear scaling

$$packets_{estimated} = packets_{total} * \left( 1 + \frac{noTraffic [sec]}{queueLength [sec]} \right)$$

# ETT calculation (3)

- average packet loss

$$ETT_{directional} = \frac{packets_{estimated}}{packets_{received}}$$

# ETT calculation (4)

$$ETT_{directional} = \frac{ETX_{directional}}{bitrate_{directional}}$$