IETF 111, IPPM WG draft-ietf-ippm-connectivity-monitoring

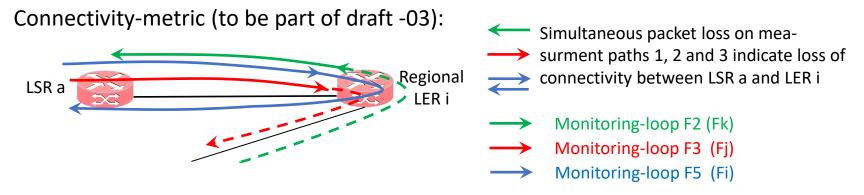
Scope:

Monitor Segment Routed subpaths or links to detect and locate loss of connectivity and congestion.

Changes -00 up to -02 (and partially -03):

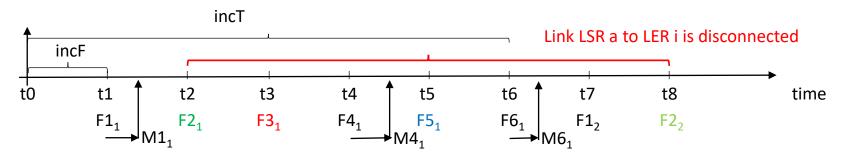
- -00: improved prose description of SR monitoring loop overlay and metrics.
- -01: formalized measurement loop and metric definitions. Still incomplete and will benefit from review.
- -02: started work on a packet loss based connectivity metric, which will be part of draft -03. Metric defintion was finalised after cut-off, see next slide.

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- Fi Measurement-loop i (in the figure also time, wehen a packet is sent along Fi) i in [1...6] 6 measurement-loops are required.
- Mi Delay of a packet passing Fi under stable network conditions
- incT Time between two consecutive packets sent along the same measurement-loop Fi
- IncF Time between two consecutive packets sent along conscutively measured Fi and Fi

incF > max (Mi) - a parameterised definition will be given in draft version -03



Definition of SR-Path-Sub-Path-Disconnected: A monitored sub-path SPi is disconnected, if no measurement packet is received from Fi, Fj and Fk during any interval incT