

A Vocabulary of Path Properties (01)

IETF 104 - PANRG

Changes from -00: Terminology

- Path Element
 - Device or link
- Path Segment
 - Ordered set of path elements at the network layer
- Path
 - Path segment between two endpoints

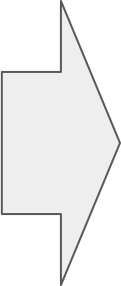
Changes from -00: Terminology

- Flow
 - Several packets traversing the same path elements
- Property
 - $\langle \text{Name, Value, Path segment, Flow or } \emptyset \rangle$
- Aggregated Property
 - Set of Properties \rightarrow Aggregated Property
- Measured & Potential Property
 - Measured & estimated property values

Changes from -00: Use cases

- Traffic Policies
- Network Monitoring
- Path Selection
 - Routing (Network Perspective)
 - Endpoint Selection (Endpoint Perspective)
 - Multipath (Endpoint Perspective)

Changes from -00: Changed path properties

- Wireless Properties
 - Signal Strength
 - Modulation Rate
 - Channel Utilization
 - Available Bandwidth
 - Presence of on-path AS
 - RTT
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- Current Data Rate
 - Maximum Data Rate
 - Administrative Entity
 - (One-Way) Latency

Conclusion

- More precision due to formalism
- Three use cases to motivate path properties
- More general property descriptions

Questions / Adoption?