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**
  - `<Name, Value, Path segment, Flow or ∅>`

- **Aggregated Property**
  - Set of Properties → 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
- 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?