DetNet Controller Plane Framework

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Overview

• DetNet Controller Plane Requirements
• DetNet Control Plane Architecture
• DetNet Control Plane for DetNet Mechanism
• DetNet Management Overview
Proposed Update 1: DetNet Control Plane for Enhanced DetNet

DetNet Control Plane for DetNet Mechanisms
- Explicit Paths
- Resource Reservation
- PREOF Support
- Data Plane specific considerations

DetNet Control Plane for DetNet Mechanisms
- DetNet Resource Collection
- DetNet Path Computation
- Path Allocation
- Path Establishment & Resource Reservation
- PREOF Support
- Data Plane specific considerations
Proposed Update 2: The Relationship between Control Plane & Management Plane

- **DetNet Control Plane**
  Set up DetNet Path with resource & parallel branches for bounded latency & reliability

- **DetNet Management Plane**
  Provide the result of performance monitoring, connectivity detection etc.

- **Possible Interaction between Control plane & Management**
  The Control Plane may be updated based on the feedback from management plane to satisfy the deterministic requirement
Next Step

• Update Document

• WG Last Call
Thanks