ACTN REQUIREMENTS

HTTPS://TOOLS.IETF.ORG/ID/DRAFT-IETF-TEAS-ACTN-REQUIREMENTS-05.TXT

Young Lee (Huawei)
Dhruv Dhody (Huawei)
Sergio Belotti (Nokia)
Khuzema Pithewan (Infinera)
Daniele Ceccarelli (Ericsson)
Takuya Miyasaka (KDDI)
Jong Yoon Shin (SKT)

UPDATES FOR THIS VERSION (05):

- Re-shaped the document to focus only on the operators' requirements to implement ACTN.
  - Service-specific requirements
    - Requirement 1: Virtual Network Service (VNS) creation
    - Requirement 2: Virtual Network Service Query
    - Requirement 3: VNS Instantiation ("Please create a VNS for me")
    - Requirement 4: VNS Lifecycle Management & Operation (M&O)
    - Requirement 5: VNS Isolation
    - Requirement 6: Multi-Destination Coordination
    - Requirement 7: VNS Performance Monitoring
    - Requirement 8: VNS Confidentiality and Security Requirements
  - Network-related requirements
    - Requirement 1: Virtual Network Service Coordination
    - Requirement 2: Topology Abstraction Capability
    - Requirement 3: Multi-Domain & Multi-layer Coordination
    - Requirement 4: End-to-End Path Restoration
    - Requirement 5: Dynamicity of virtual network control operations
- Deleted all interface-specific requirements

SUMMARY & NEXT STEPS

- Stable

- Ready for WG LC!

ACTN INFO MODEL

Young Lee (Huawei)
Sergio Belotti (Nokia)
Dhruv Dhody (Huawei)
Daniele Ceccarelli (Ericsson)
Bin Yeong Yoon (ETRI)

UPDATES FOR THIS VERSION (02):

- Referred all terminology to the ACTN Framework document
- Deleted all overlapping text with other ACTN documents such as Framework.
- <VN Service Characteristics> Object includes <VN Objective Function>:

→aligned with te-tunnel yang

<VN Service Characteristics> ::= <VN Connectivity Type>

(<VN Traffic Matrix>…)

<VN Survivability>

Where <VN Traffic Matrix> ::= <Bandwidth> [<VN Constraints>]

Where <VN Constraints> ::= [<Layer Protocol>] [<Diversity>] [<Shared Risk>]

(<Metric> | *<VN Objective Function>*)

SUMMARY & NEXT STEPS

- Stable

- Ready to move to WG LC!