# TEAS-NS-DT Framework Draft Status 

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Major text additions from multiple DT members

## Current Status

- Presented prior status at the TEAS Interim following IETF 107
- Interim: https://datatracker.ietf.org/meeting/interim-2020-teas-01/session/teas
- Presentation: https://www.ietf.org/proceedings/interim-2020-teas-01/slides/slides-interim-2020-teas-01-se ssa-4c-draft-nsdt-teas-ns-framework-00.pptx
- Summary:
- Framework - not requirements or architecture
- Implementation/Technology agnostic "Transport Slices"
- Brief description of draft content
- Proposed next steps
- Postponed adoption request pending resolution of objections to the definition draft


## Changes to this draft since IETF 107 + Interim

- Editorial Changes
- Minor editorial improvements to Abstract, ToC, Introduction
- Improved capitalization consistency (transport slice, telemetry, statistics, states)
- consistent with definition draft as well
- Punctuation, usage corrections
- Corrected paste error for ACTN references
- Removed vestigial or redundant text
- Usual reference updates
- Clarified the limited applicability of ACTN to generic transport slices
- This involved much iterative discussion
- Some interpretations of roles defined in ACTN result in hiding relevant transport slice elements
- This is a result of the potential for overlap between CNC/MDSC and transport slice elements
- Other role comparisons and overlap are possible, but only CNC/MDSC overlap is in scope
- Clarified that the comparison discussed is one of many and is included because of applicability and scope


## Changes currently pending

- Technical comments (mostly from Kiran)
- Need to clarify the role of NBI as a new interface (in multiple places)
- Provide an earlier introduction for "SLO" and related terminology
- Deal with confusing and (possibly) vestigial text related to isolation
- Consistently use 'transport slice consumer" (in sync with similar changes to definition draft)
- Improve the comparison figure in ACTN applicability by removing ambiguous "customer"
- Refer to transport slices instead of transport slice services
- Need specific (acceptable) text proposals to address some issues
- Resolve "network structure"/"topology" tension
- Resolve issues with apparent preference for using existing technologies
- Objections to repeated references to VPN+ draft
- Use of "intent" verses "objective"
- Resolve potential discussion of SBI
- Sync potential changes to Figures (1 in this draft and 4 in definitions)


## ACTN Applicability

- In addition to this section in this draft, there is a resurrected draft that specifically addresses applicability of ACTN to TE Network Slicing
- Draft draft-king-teas-applicability-actn-slicing-06
- Version -04 expired in April, 2019
- New versions -05 and -06 posted in June and July of this year
- Outlines ACTN applicability specifically:
- For TE networks
- Using IETF technology
- May be a good candidate to refer to in the applicability of ACTN section of this draft


## Next Steps

- Request WG adoption
- Working Group review and comments
- See draft posted at:
- https://tools.ietf.org/html/draft-nsdt-teas-ns-framework
- Current posted version is -04


## TEAS NSDT Draft Status

## IETF Definition of Transport Slice

## draft-nsdt-teas-transport-slice-definition-04

```
Reza Rokui (Nokia)-Presenting
Shunsuke Homma (NTT)
Kiran Makhijani (Futurewei)
Luis M. Contreras (Telefonica)
Jeff Tantsura (Apstra)
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Virtual meeting, Sep 23, 2020

## IETF NSDT Problem Statement

"Others" depends on use-case of network slicing and might exist in some use-cases

E2E network slice contains one or more connections

Which term to use to describe "Connection"? These are a few options in order of authors preference (under discussion):

1. Connection Slice draft author's preference
2. Transport Slice
3. Transport Network Slice
4. Use 3GPP phrase: "Transport network supporting connectivity"
5. Other suggestions??

## E2E network slice

## IETF NSDT

- Complements IETF work
- Addresses the characteristics of various connections which are among VNF/PNF/Applications
- The realization of connections in transport networks complements IETF models (e.g. ACTN F/W, L3SM, L2SM, EVPN etc..)
- Addresses the data model to model these connections and its NBI

Each Transport Network could contain technologies such as IP/MPLS, with or without TE, PON, Optics, Microwave etc.

Network Slicing use-cases


IETF NSDT addresses all use-cases

