

A Realization of RFC XXXX Network Slices for 5G Networks Using Current IP/MPLS Technologies: Updates & Next Steps

draft-ietf-teas-5g-ns-ip-mpls-01

IETF#118, Prague

November 2023

K. Szarkowicz (Juniper), R. Roberts (Juniper), J. Lucek (Juniper),
M. Boucadair (Orange), L. M. Contreras (Telefonica)

Summary of Issues & Resolution (1)

- Assess which/whether some of the material in the "Network Slice Mapping" Section should be maintained in this draft or moved to the application I-D
 - Sync with the authors of the application I-D
 - The outcome is to keep the text in the realization I-D + Add NEW Scope text to both I-Ds to help decide if similar issues are raised in the future
 - Proposed fix shared on the list (October 04, 2023):
<https://mailarchive.ietf.org/arch/msg/teas/4QifnnGAcnQcCTXRLSJtQ1SArLA/>
 - Removed the editor note used to flag the issue from draft-ietf-teas-5g-ns-ip-mps-01

Avoid Overlapping with draft-ietf-teas-5g-network-slice-application

This document focuses on the *mapping between 5G Slices and underlying Transport Networks*. Specifically, the document describes *how RFC XXXX Network Slice Services can be derived in the context of a 3GPP Slice Service*. To that aim, the document explores how and whether 3GPP Slice Service *parameters are mapped to parameters that are exposed in IETF service data models* (mainly, IETF Network Slice Service Model, Attachment Circuits'-as-a-Service (ACaaS), and bearers). *It is out of scope of this document to elaborate on the realization* of RFC XXXX Network Slices. These considerations are discussed in [I-D.ietf-teas-5g-ns-ip-mpls].

NEW Scope text added to draft-ietf-teas-5g-network-slice-application

Avoid Overlapping with draft-ietf-teas-5g-network-slice-application

This document focuses on the ***technical realization of RFC XXXX Network Slices***. The realization is typically triggered by Network Slice Service requests. ***How a Network Slice Service request is placed for realization, including how it is derived from a 5G Slice Service request, is out of scope***. Network Slice Service mapping considerations (e.g., mapping between 3GPP to IETF service parameters) are discussed in [I-D.ietf-teas-5g-network-slice-application].

NEW Scope text added to draft-ietf-teas-5g-ns-ip-mps

Summary of Issues & Resolution (2)

- Assess whether we need to maintain the "First 5G Slice vs Subsequent Slices" Section
 - Updated the text to clarify why this is relevant to the realization
 - Proposed fix shared on the [list](#) (October 06, 2023)
- Clarify the use of inter-AS option B/C to model the AC between CE and PE
 - Updated the text to insist on the specifics of this model compared to distributed and managed CE models
 - Change to “service-aware CE”
 - Proposed fix shared on the list ([here](#)) (October 06 , 2023)
- Further discuss whether the TN slice in the customer site is covered or is out of the scope of Network Slice
 - We agree that statement is ambiguous and, more importantly, does not bring much. What is important in that section is to describe the various orchestration domains.
 - We deleted that statement
 - Proposed fix already shared on the [list](#) (October 06, 2023)

Other Changes

- Added a NEW Section to cover « inter-AS Option C » considerations
- ... And many other edits to enhance readability

Next Steps

- The authors think that the content is almost stable
 - 12 revisions so far
- **Proposal:** Target WGLC by March 2024
 - Request early directorate reviews right after IETF#118, especially
 - rtg, opmdir, tsvart (QoS part), & intdir (addressing part)
 - Seek external reviews on specific sections
 - We received some ACKs to review
 - Contacted tsvwg for feedback: Received so far feedback from Ruediger Geib (no issue with the approach in the draft)
- Comments are welcome
 - Issues and PRs can be issued at <https://github.com/boucadair/5g-slice-realization>