

DMM WG

IETF 118

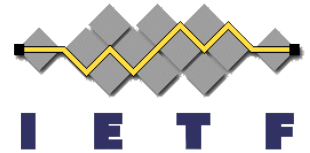
DMM WG Agenda & Status

Monday, 6th November 2023

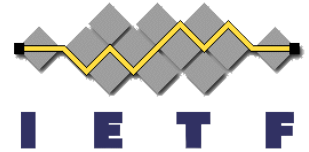
Sri Gundavelli (Cisco)

Satoru Matsushima (SoftBank)

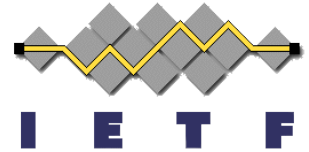
Location: Prague



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 - There is IPR associated with your draft
 - The restrictions listed in section 5 of RFC 3978/4748 apply to your draft
- When asking questions or commenting on a draft:
 - You **MUST** disclose any IPR you know of relating to the technology under discussion
- References
 - RFC 5378 and RFC 3979 (updated by RFC 4879)
 - The IETF “Note well” (on the next slide)



Note Well

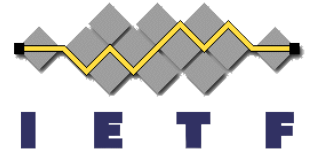
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Definitive information is in the documents listed below and other IETF BCPS. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)



Before we start...

- Blue sheets
- Note takers
- Jabber scribe

WG Link:

<http://datatracker.ietf.org/wg/dmm/>

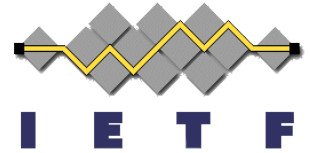
Agenda:

<https://datatracker.ietf.org/doc/agenda-118-dmm/>

WG Status Update

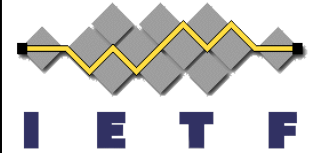
- Documents in WG development process
 - "Mobility-aware Transport Network Slicing for 5G"
 - draft-ietf-dmm-tn-aware-mobility-08.txt
- Two WG Adoption Polls closed (2023/10/19 ~ 2023/11/02)
 - (1) draft-kohno-dmm-srv6mob-arch-07
 - (2) draft-zzhang-dmm-mup-evolution-06
- Comment Requested
 - "Impact analysis from IPv6 GTP-U checksum calculation"
 - draft-murakami-dmm-udp-checksum-impact-gtpu-01

Chair's Review on the WG Adoption Polls



- (1) draft-kohno-dmm-srv6mob-arch-07
 - No significant issue was observed.
- (2) draft-zzhang-dmm-mup-evolution-06
 - Some issues were raised.

Chair's Review on the WG Adoption Polls (Cont'd)



- (2) draft-zzhang-dmm-mup-evolution-06

Issue

"ANUP solely addresses user plane convergence and tries to liaise with 3GPP, but I'm afraid this is a half-baked attempt." [\(Link\)](#)

"the ANUP concept arises from the state in which the (R)AN(-UP) retains MM and SM data through Control Plane Convergence. Hence, in alignment with Miya's perspective, we believed that limiting discussions solely to the User Plane would make collaboration with 3GPP quite challenging." [\(Link\)](#)

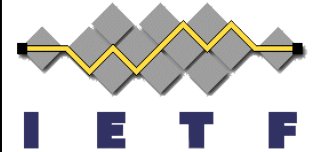
Corresponding Text or Author's reply

I should say that ANUP does not limit the discussion solely to User Plane. As mentioned in the draft and another email, integration of AN and UPF in the user plane allows for convergence/optimization of control plane (now that there is no need to signal the unnecessary N3 tunnel in the targeted use case), and the whole proposal is more valuable with the convergence/optimization of control plane (otherwise it's just an implementation choice of eliminating the N3 tunnel but still use separate N2/N4 signaling). [\(Link\)](#)

Chair's Review

The current draft seems to include inconsistent C-Plane discussions compared to what the authors argued. See the next issue.

Chair's Review on the WG Adoption Polls (Cont'd)



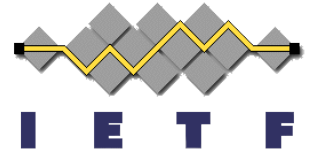
- (2) draft-zzhang-dmm-mup-evolution-06

Issue	Corresponding Text or Author's reply
<p><i>"C-Plane for Mobility Handover (6.3) and Paging (6.4) are particularly important elements in considering them, but this document does not attempt to analyze or solve the problem and just claims that they are "the same as 3GPP's current behavior"."</i> (Link)</p>	<p><u>In 6.3 of draft-zzhang-dmm-mup-evolution:</u> <i>"UEs may have persistent IP addresses even when they re-anchor from one ANUP to another, as described in Section 2 of [I-D.zzhang-dmm-5g-distributed-upf]"</i></p> <p>""</p> <p><u>In 6.4 of draft-zzhang-dmm-mup-evolution:</u> <i>Again, notice that because ANUP is just the integration of previously separate but co-located AN and UPF functions, the above paging procedures are not different from when AN and UPF are separate.</i></p>

Chair's Review

[Sec.2 of "draft-zzhang-dmm-5g-destiributed-upf"](#) assumed SMF exists, which could contradict with the ANUP proposal for simplifying signaling (N4 still required). In terms of paging, RNA paging over Xn has no IP addr info. If it has, it is different from the current. And it also assumes AMF exists after paging. It seems to contradict with ANUP concept (N2 still required too). If AMF doesn't exist, it is different from the current.

Chair's Review on the WG Adoption Polls (Cont'd)



- (2) draft-zzhang-dmm-mup-evolution-06

Issue

"Unless the focus is on a very specific case of single PDN with no mobility private MEC" or "satellite to satellite" only), it seems ANUP like function is unnecessary at this point and crossing over into 3GPP territory. Proposing to merge N1/N2 and N4 signaling will be an overkill to solve a very niche use-case.
[\(Link\)](#)

Corresponding Text or Author's reply

ANUP does not change that and it does not avoid mobility handling.

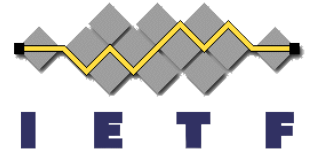
*...
Even if the proposal eventually does not get adopted in 3GPP, it is desired for DMM to adopt it based on rough consensus as a proposal/base for further study in 3GPP.*

[\(Link\)](#)

Chair's Review

When it comes to rough consensus, should it be proved by the running code?
Similar comment can be seen:

["the focus of the draft should be changed to address details of realizing "ANUP""](#)



Today's Presentations

- Administrivia & Intro, WG organization & updates, Chairs, 10 min.

Working Group Drafts

- Mobility aware Transport Network Slicing for 5G, draft-ietf-dmm-tn-aware-mobility, John Kaippallimalil, 15 min.

Individual Drafts

- Computing Aware Traffic Steering Use Cases of Mobile User Plane, Duong Phùng Hà, 10min.
draft-duongph-dmm-computing-aware-ts-mup-sr
- SRH Reduction for SRv6 End.M.GTP6.E Behavior, Yuya Kawakami, 20min.
draft-kawakami-dmm-srv6-gtp6e-reduced

Close of the Meeting

IETF#118

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