

I2NSF WG Meeting minutes

IETF 102 Montreal

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13:30-13:40 - Agenda bashing, blue sheets, and Note Well

The chair went through the Document status. Got approval from the WG with the proposed milestone changes for the WG:

Feb 2019	Working group re-charter or close
Dec 2018	Data Models and Applicability Statements to IESG for publication
Dec 2018	All early drafts to IESG for publication (if WG decided to proceed): use cases, problem statement, and model requirements for extensions to protocols document ; examination of existing secure communication
Done	Publication: use cases, problem statement, and gap analysis document; framework document;
March 2019	Adopt IANA registry consideration as WG document if deemed necessary

13:40-13:45 Report of IETF-102 Hackathon I2NSF project (5 min): TaeKyun Roh

<https://github.com/kimjinyong/i2nsf-framework>

The Hackathon demonstrated the implementation of Registration Interface, Policy Translation, Policy Provisioning.

13:45-14:00 IPsec Flow Protection (15 min): Rafa Marín-López

YANG models for both case 1 and case 2 in the document include state data

NAT traversal

Rekeying

Implementation started, with the goal of a complete PoC

Frank Xia: especially For case 2, We need to ensure a trusted link between controller and NSFs. I also think case 2 has its use cases, the key point is to consider the tradeoff between security and scalability

Rafa: We agree there may be a concern about the controller, but according to the SDN paradigm it must be considered a trusted entity.

Yoav Nir: I still don't see the value in case 2

Brian Weis: YANG models are an interesting contribution, but the issues with case 2 remain

Rafa: The issues for case 2 are related with the SDN concept itself. There are no specific requirements on the kind of functions we manage, and there are such functions to which case 2 can apply

Yoav Nir: This debate has to continue in the IPsec WG

Linda: in I2NSF interim meeting, we agree to write some risk analysis for case 2, and how to copper with it.

Rafa: for resource constraint devices, such as IOT devices, it doesn't want to process many parallel sessions of IKE with all its peers. We see the value and use case.

A short presentation by David Carell on something case2-like (Controller-IK), without the controller needing to know the keys, based on a DH key exchange

Rafa: I see a case 2, with a modification to hide the keys from the controller

kent leung:Are you implyig the controller generates the public keys, Rafa

Rafa: No

Frank Xia: How are keys distributed and negotiated?

David: We are assuming Rafa's protocol

Brian: Both state machines can be the same

Rafa: you use the multicast way to do the DH key negotiation?

Carell: no, it's unicast, the controll relay between peers.

Rafa: we think our case 2 solution mainly has certain security problems, but is better on the scalability aspect.

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Will continue the discussion offline.

14:00—14:05 I2NSF Applicability WG document, updates and next steps: Jaehoon Paul Jeong

<https://datatracker.ietf.org/doc/draft-ietf-i2nsf-applicability/>

How to apply I2NSF in different scenarios (SDN, SFC, NFV)

John Strassner: In NFV, take a look at the most recent MANO specs

Paul: We are looking at an implementation based on OSM

Diego: We are trying to build a more consistent storyline

John: Happy to help with SFC

Linda: Close to WGLC

14:05-14:45 – Data Model & Information Models discussion

I2NSF Capability information model draft – John Strassner

The draft focuses on what capabilities are.

Sue Hares: A tactical question. We need to show this ideas on the data models we are working currently

Sue: It would be interesting to share the proposal on hierarchies and associations with the YANG Doctors

Diego: continue to align the IM and DM, hope to provide help. We have some ideas to translate this into an actionable YANG model

Linda: later, we can have a conf call to do it, thanks!

I2NSF Data Models (20 min) - Presenter: Jaehoon Paul Jeong

- . draft-ietf-i2nsf-capability-data-model-01
- . draft-ietf-i2nsf-consumer-facing-interface-dm-01
- . draft-ietf-i2nsf-nsf-facing-interface-dm-01
- . draft-hyun-i2nsf-registration-interface-dm-04
- . draft-hong-i2nsf-nsf-monitoring-data-model-04

All of them demonstrated and integrated during the hackathon

Sue: give a short presentation about NSF DM to do, which including operational state and registration data

I2NSF Information Models (Presenter: Seungjin Lee, 10 min)

- . draft-kumar-i2nsf-client-facing-interface-im-06
- . draft-hyun-i2nsf-registration-interface-im-05

Diego: suggestion to merge "registration DM" and "Registration IM" content, as the "Capability Information model" is more complete.

14:45 - 14:50 Remote attestation in NFV scenario & Attestation matters in I2NSF

draft-pastor-i2nsf-nsf-remote-attestation-04

Presenter: Diego Lopez

Diego: there will be general Attestation. However, the content addressed by the draft is only applicable to I2NSF WG.

Didn't have enough time to discuss the following drafts.

I2NSF policy object data model

draft-xia-i2nsf-sec-object-dm, Qiushi Lin

Security Policy Translation (Presenter: Jinhyuk Yang)

draft-yang-i2nsf-security-policy-translation-00