Interface to Network Security Functions (I2NSF)

IETF 99, Tuesday, July 18, 13:30-15:30

Chairs:
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Administrivia

• Charter:  
  http://datatracker.ietf.org/wg/i2nsf/charter/

• Mailing List:  
  https://www.ietf.org/mailman/listinfo/i2nsf

• Minutes Taker:

• Jabber Scribe:

• Blue Sheets  
  – Please fill them in and circulate  
  – They are now scanned and published online
Reminders

• Agenda:
  – https://datatracker.ietf.org/meeting/99/agenda/i2nsf/

• Meeting materials, slides, audio streams

• Minutes Takers (Etherpad):

• Jabber room
  – i2nsf@jabber.ietf.org

• Wiki and issue tracker
  – https://tools.ietf.org/wg/i2nsf/

• State your name clearly and slowly at the mic
Agenda

- **Administrivia - Chairs** [5 mins: 5/120]
- **IETF 99 I2NSF Hackathon Report** [5 mins: 10/120]
- **I2NSF Capability Informational Model** [10 mins: 20/120]
  - draft-xibassnez-i2nsf-capability-02 - Presenter: Frank Xia
- **I2NSF Applicability (to fulfill the milestone)** [10 mins: 30/120]
  - draft-jeong-i2nsf-applicability-01 - Presenter: Jaehoon Paul Jeong
- **NSF Facing Interface Information/Data Model** [40 mins: 70/120]
  - draft-zhang-i2nsf-info-model-monitoring-04 [5 mins] - Presenter Henk Birkholz
  - draft-hares-i2nsf-capability-data-model-03 [5 mins] - Presenter: Sue Hares
  - draft-abad-i2nsf-sdn-ipsec-flow-protection-03 [10 min] - Presenter: Gabriel Lopez
- **Client Facing Interface Information/Data** [30 mins: 100/120]
  - draft-kumar-i2nsf-client-facing-interface-im-03 [10 mins] - Presenter: Nabil
  - draft-xia-i2nsf-security-policy-object-01 [5 mins] - Presenter: Qiushi Lin
  - draft-jeong-i2nsf-consumer-facing-interface-dm-03 [10 mins] - Presenter: Jaehoon Paul Jeong
- **Others** [10 min: 120/120]
  - draft-hyun-i2nsf-nsf-triggered-steering-03 [10 mins] - Presenter: Sangwon Hyun
Milestones Achieved

- RFC 8192 Final stage: draft-ietf-i2nsf-problem-and-use-cases:
  - congratulations to the authors
- WGLC completed (new revision needed):
  - draft-ietf-i2nsf-framework
- Stay current as WG document until WG finishes its milestone
  - draft-ietf-i2nsf-terminology
  - draft-ietf-i2nsf-gap-analysis
- Decision point if following is ready for WGLC?
  - draft-ietf-i2nsf-client-facing-interface-req
- WG adoption candidates:
  - draft-jeong-i2nsf-applicability-01
  - draft-xibassnezi2nsf-capability-02
  - draft-kumar-i2nsf-client-facing-interface-im-03
  - draft-hares-i2nsf-capability-data-model-03
  - draft-kim-i2nsf-nsf-facing-interface-data-model-02
From our Model Discussion – A few thoughts

Susan Hares
Aligning Data Model and Info Models

- Informational Models are blueprints for Data models
- Two types of alignment: Exact or subset
- Understanding which is your core concept in blueprint (data model)
  - Group your data models around core concept using simple concept
  - Provide easy to understand modules
Blueprints are the basis for complex structures

But coders start with building a portion of the information model - just like you start by building a large building.
It is important to verify the Blueprint

- If data model = information model, you can check the data model with tools.
- Issues: You must implement all the data model, and it may create a broken data model at a large cost.
Recommendation

• Verify the complete information model,
• Build a portion of the model in stages
  – Simple, then more complex.
  – Hackathon code, then product code.
• Base everything on key model (Capability)
Base everything on our key model

I2NSF Capability model is our key model
Why + How of DM Grouping

• Simple subsets help you get data models accepted and deployed.
• Data catalog and registry concept helps you group simple data models into a clear subset of informational model
  – draft-clacla-netmod-model-catalog-00
  – draft-openconfig-netmod-model-catalog-02
**Information Model & Data Model**

**Information model:**

draft-xibassnez-i2nsf-capability-02

draft-xia-i2nsf-security-policy-object-01

draft-kumar-i2nsf-client-facing-interface-im-03

draft-hyun-i2nsf-registration-interface-im-02

draft-zhang-i2nsf-info-model-monitoring-04

Per RFC 3444:
IMs are primarily useful for designers to describe the managed environment, for operators to understand the modeled objects, and for implementors as a guide to the functionality that must be described and coded in the DMs.

**Data Model:**

draft-hares-i2nsf-capability-data-model-03
Base Model (subset)

draft-kim-i2nsf-nsf-facing-interface-data-model-02

draft-jeong-i2nsf-consumer-facing-interface-dm-02

draft-hyun-i2nsf-registration-interface-dm-01

draft-hong-i2nsf-monitoring-data-model-00
Don’t Forget the Wiki etc.

• The working group tools page has resources for you
  – https://tools.ietf.org/wg/i2nsf/
• Includes an issue tracker
• Includes a wiki
• You can (should) use these to help you with your work
  – Anyone can add anything relevant