

Interface to Network Security Functions (I2NSF)

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

Chairs:

Linda Dunbar <linda.dunbar@huawei.com>

Adrian Farrel <adrian@olddog.co.uk>

Note Well

- Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:
 - The IETF plenary session
 - The IESG, or any member thereof on behalf of the IESG
 - Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
 - Any IETF working group or portion thereof
 - Any Birds of a Feather (BOF) session
 - The IAB or any member thereof on behalf of the IAB
 - The RFC Editor or the Internet-Drafts function
- All IETF Contributions are subject to the rules of [RFC 5378](#) and [RFC 8179](#).
- Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult [RFC 5378](#) and [RFC 8179](#) for details.
- A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.
- A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.

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
 - <http://tools.ietf.org/agenda/99/>
- Minutes Takers (Etherpad):
 - <http://etherpad.tools.ietf.org:9000/p/notes-ietf-99-i2nsf?useMonospaceFont=true>
- 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-kim-i2nsf-nsf-facing-interface-data-model-02 [10 mins] - Presenter: Jaehoon Paul Jeong
 - draft-hyun-i2nsf-registration-interface-im-02 & draft-hyun-i2nsf-registration-interface-dm-01 [10 mins] - Presenter: Sangwon Hyun
 - draft-abad-i2nsf-sdn-ipsec-flow-protection-03 [10 min] - Presenter: Gabriel Lopez
- Client Facing Interface information/data [30 mins: 100/120]
 - draft-ietf-i2nsf-client-facing-interface-req-02 [5 mins] - Presenter: Nabil
 - 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-xibassnez-i2nsf-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



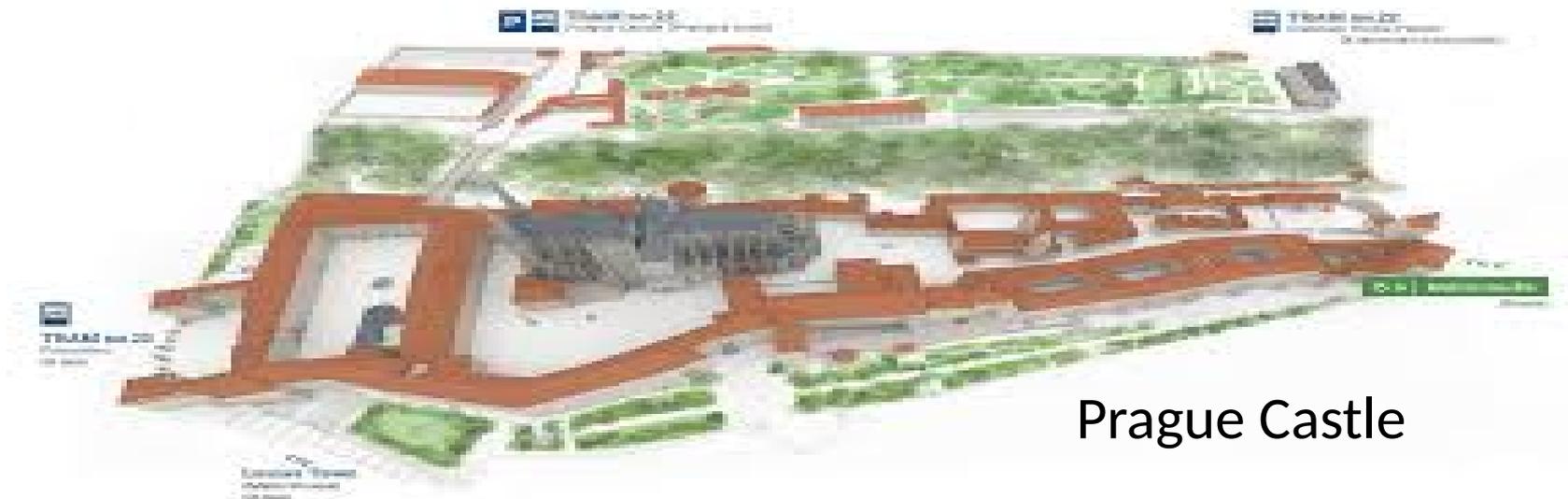
But coders start with building a portion of the information model - just like you start by building a large building.

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



Prague Castle

- **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

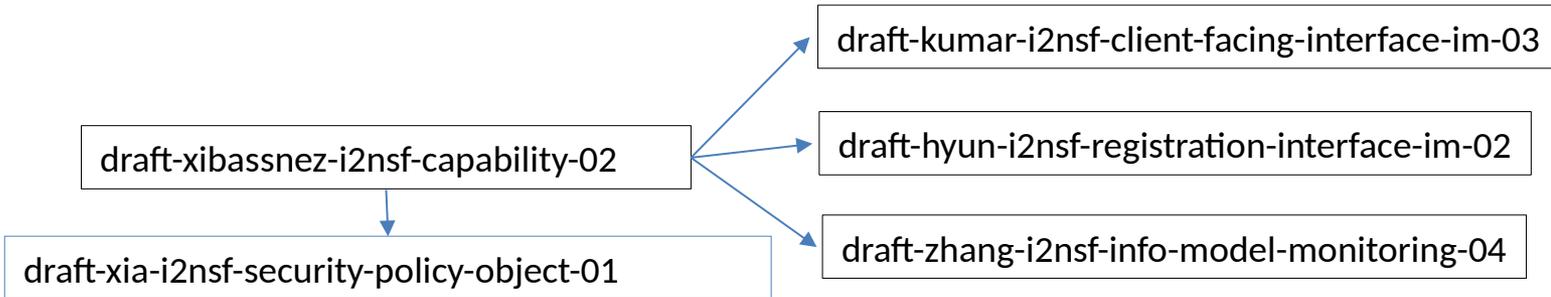


Why + How of DM Grouping

- 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:



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