

I2NSF Capability YANG Data Model (draft-hares-i2nsf-capability-data-model-05)

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Data Models

- **Capability Data Model:** To register the capabilities of NSFs into Security Controller.
 - <https://tools.ietf.org/html/draft-hares-i2nsf-capability-data-model-05>
- **NSF-Facing Interface Data Model:** To configure the policies into an NSF dynamically.
 - <https://tools.ietf.org/html/draft-kim-i2nsf-nsf-facing-interface-data-model-04>

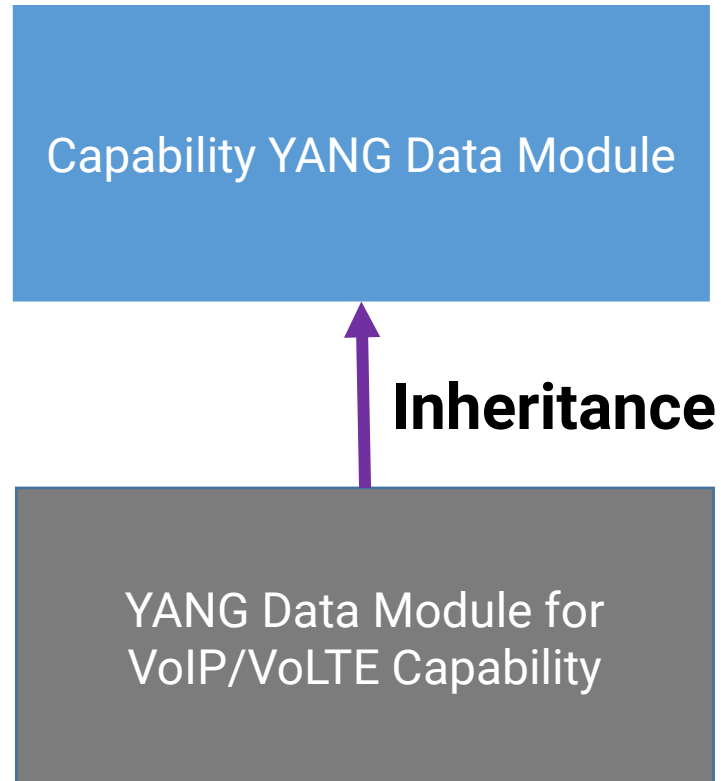
Introduction

- This draft is an updated version from **draft-hares-i2nsf-capability-data-model-04**.
- This draft defines a YANG data model **corresponding to** the information model for **Registration Interface**.
 - **draft-ietf-i2nsf-capabilities-00**.
- This YANG data module **was verified** through a **prototype** implemented at **IETF-100 Hackathon**.

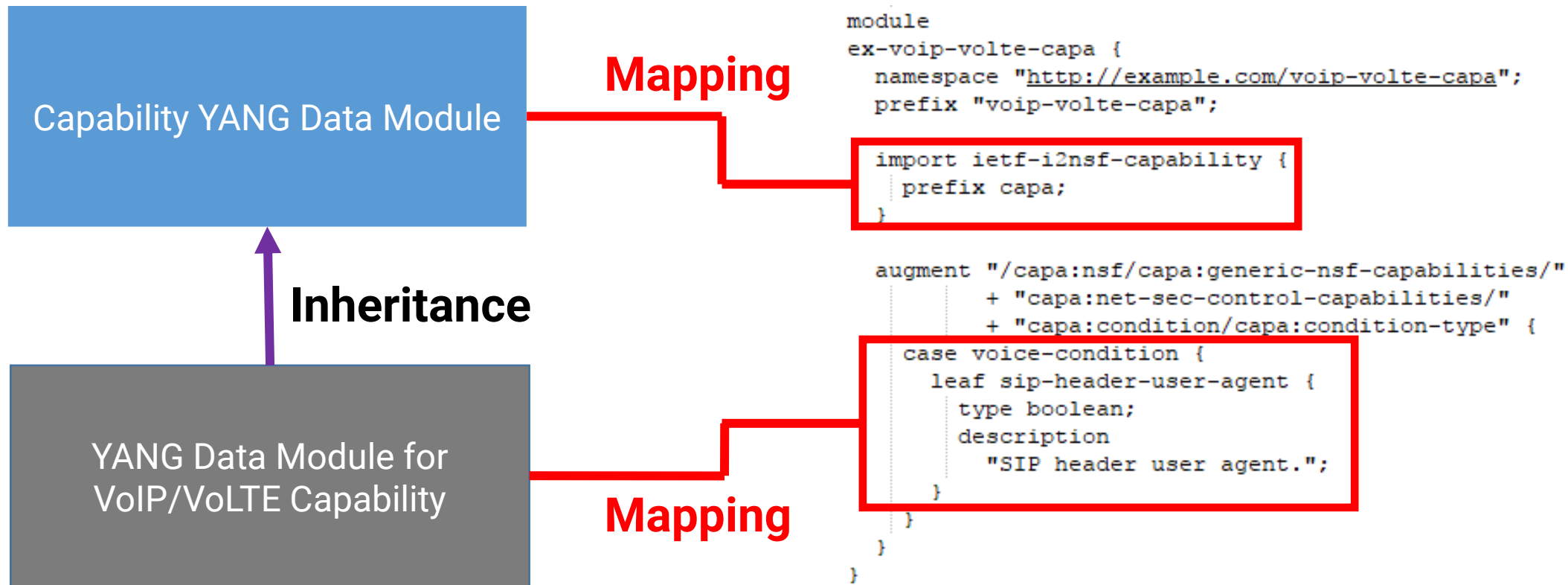
Major Change of This Version

- **We considered capability algebra for security policy rules.**
 - Event/Condition/Action Clauses
 - Resolution Strategy Mechanism
 - Default Action Mechanism
- We've made it possible for the vendors **to extend this YANG data module** according to **specific capabilities** of their network security functions.
- We added the **examples in appendix.**
 - **Extended YANG Data module about a specific NSF.**
 - Extended **VoIP/VoLTE** Security Function **Capabilities.**
 - **Configuration XML.**
 - **Generic** Network Security Function Capabilities.
 - Extended **VoIP/VoLTE** Security Function **Capabilities.**

Example for Extended YANG Data Module (1/2)



Example for Extended YANG Data Module (2/2)



Next Steps

- 1. We will discuss with IM & DM team for consistency between IM and DM.
- 2. We will verify YANG data model by implementing a prototype.
- 3. We request WG Adoption.

Q&A

Thank you