

Registration Interface Information Model and Data Model (draft-hyun-i2nsf-registration-interface-im-03, draft-hyun-i2nsf-registration-interface-dm-02)

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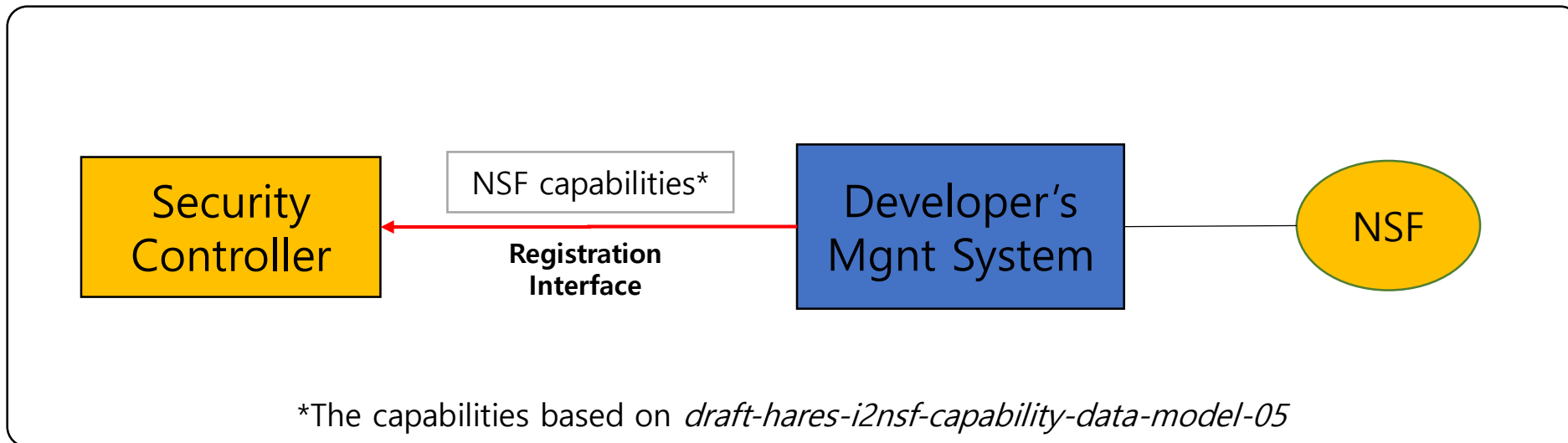
S.Wi J.Jeong J.Park

Introduction

- Information model & data model for the Registration Interface are required for the following functions :
 - To register the capabilities of NSF created by Developer's Management System (DMS)
 - To send a query of NSF capabilities to DMS
 - To request DMS to instantiate/de-Instantiate an NSF
- Secure the registration of distributed NSFs via the Registration Interface in a centralized manner

Registration of NSFs

- Developer's Management System(DMS) register the NSF to Security Controller via Registration Interface

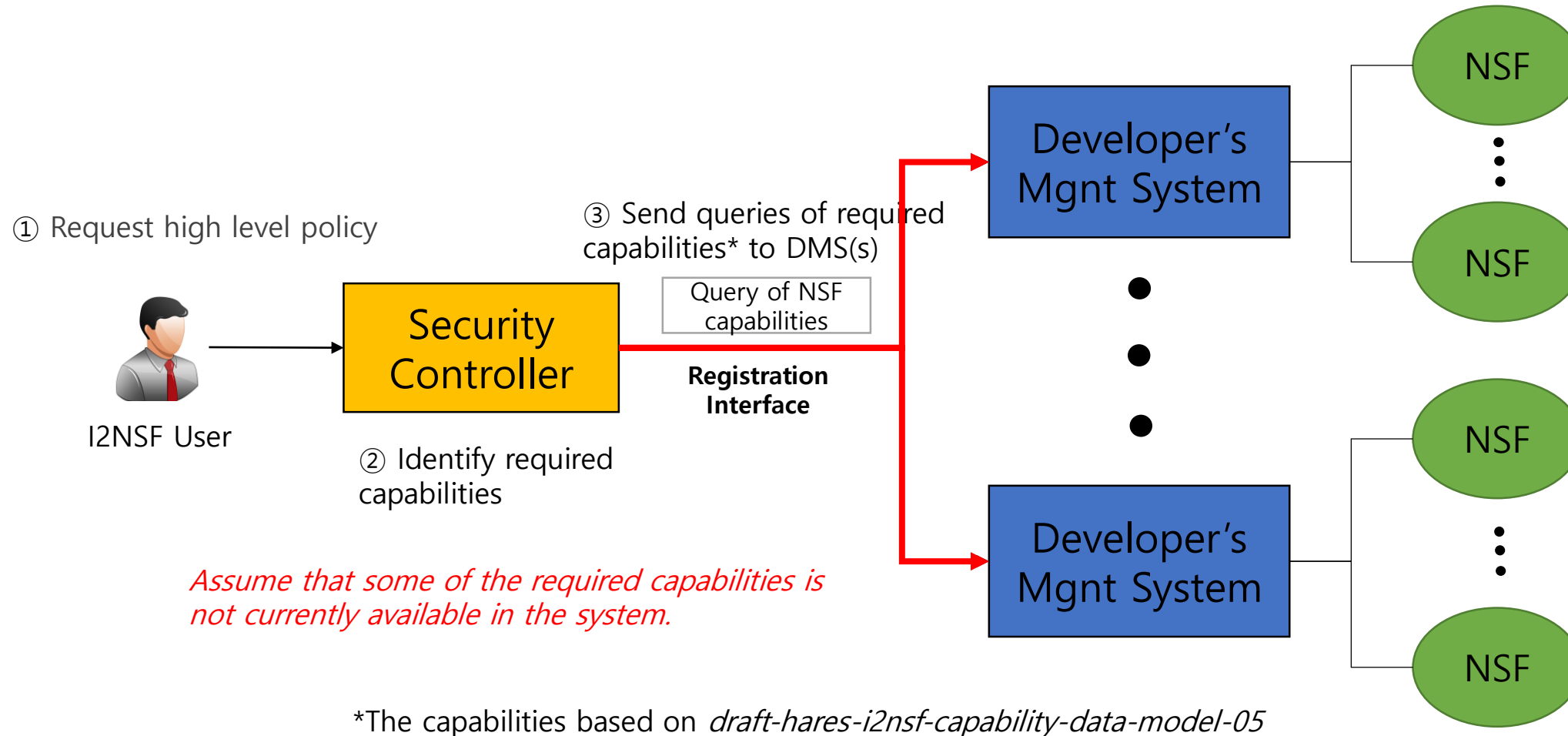


Additional Usages of Registration Interface

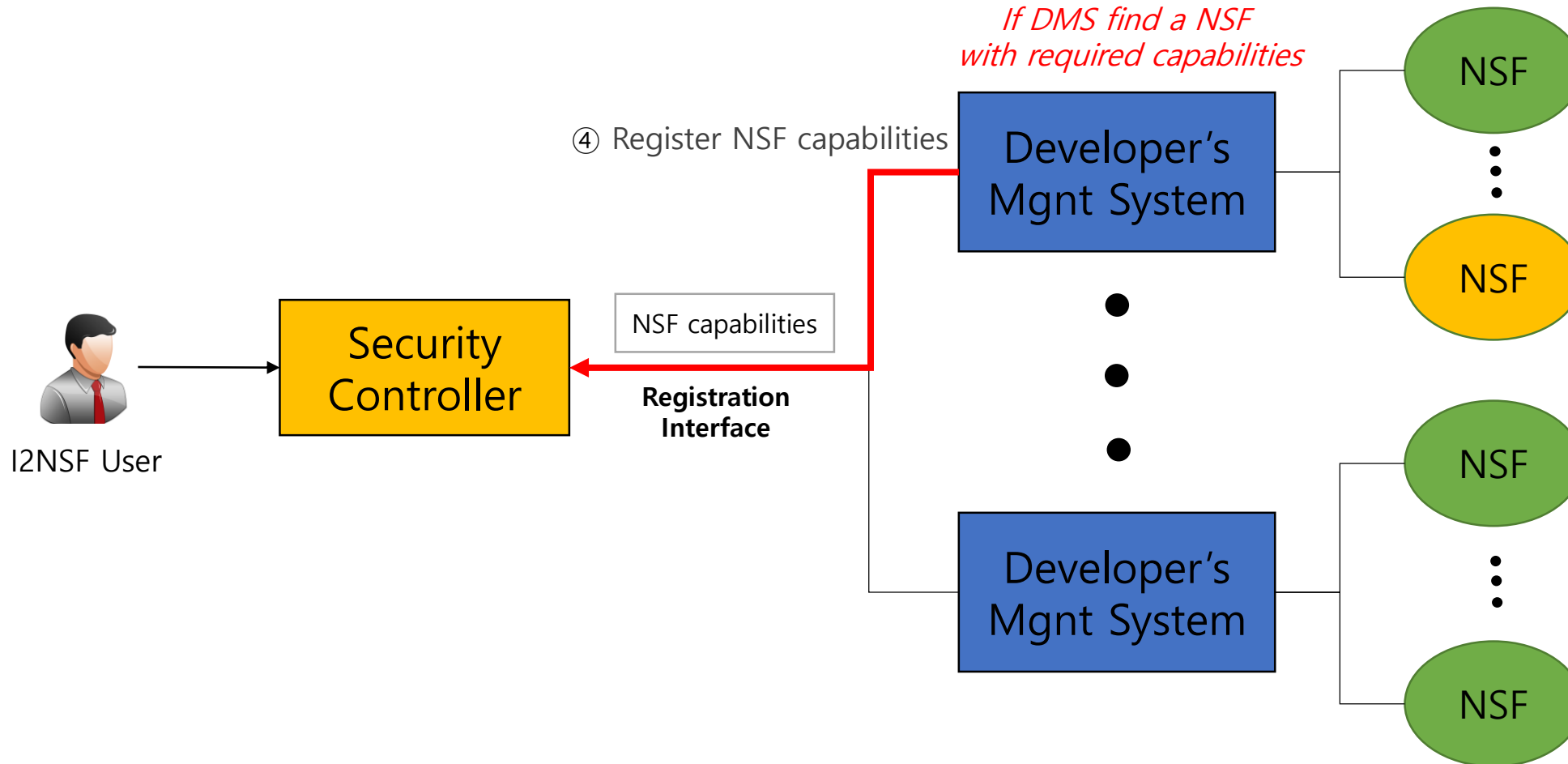
- Motivation
 - Security Controller send a query to DMS to search NSFs with required capabilities via Registration Interface
 - Security Controller request instantiation/de-instantiation of NSFs to DMS

The existing information model (draft-i2nsf-capability-00) & data model (draft-hares-i2nsf-capability-data-model-05) are used to describe the security capability(s) of an NSF.

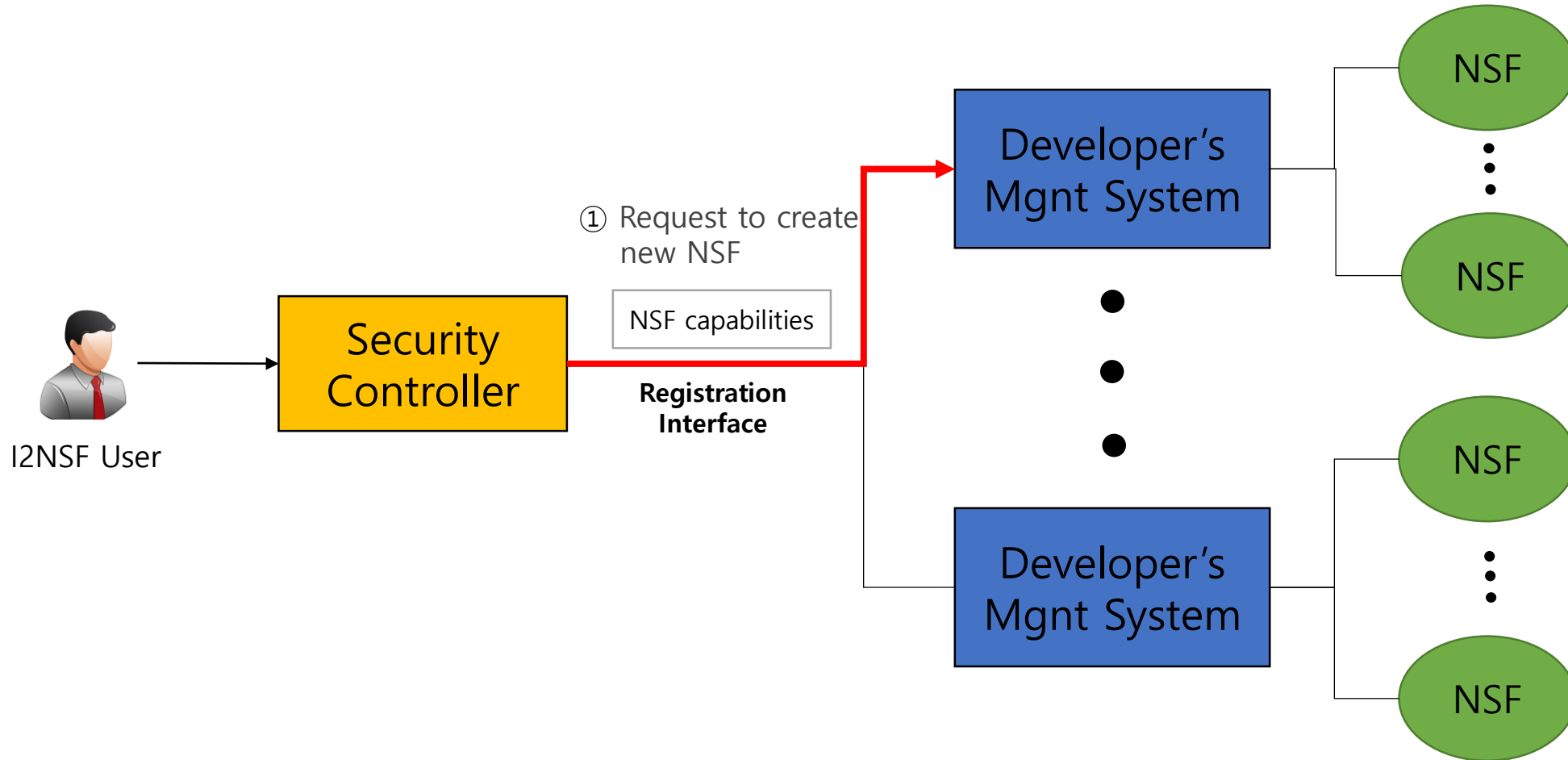
Capability-based NSF Search(1/2)



Capability-based NSF Search(2/2)



Instantiation Request of NSF



Updated from Previous Version

- In draft-hyun-i2nsf-registration-interface-im-03,
 - We revised the document to explain on demand instantiation/de-instantiation of NSFs depending on capability requirements.
- In draft-hyun-i2nsf-registration-interface-dm-02, we updated the YANG data model accordingly in order to align with the updates in draft-i2nsf-registration-interface-im-03

Next Step

- We will implement the following functions in the 102th IETF Hackathon:
 - 1) Implement instantiation/de-instantiation functions of registration Interface in OpenStack environment

Thank you

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