YANG Data Model for Monitoring I2NSF Network Security Functions

draft-hong-i2nsf-nsf-monitoring-data-model-05

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Updates from the Previous Version

• The Previous Draft:

• Changes from the previous versions
  - The association with the three main interfaces of the I2NSF framework is described in Section 4.
  - Typos are corrected.
Overview

The latest Information Model (draft-zhang-i2nsf-info-model-monitoring-07) is organized as follows:

- Monitoring Information
  - Notification
    - Record
    - Event
    - Alarm
    - System Event
    - NSF Event
  - Counter
    - NSF Counter
    - System Counter
  - Log
    - System Log
    - NSF Log
NSF Monitoring Management

• Policy Monitoring
  - **I2NSF Consumer-Facing Interface:** The NSF monitoring data model can specify a list of threat-feed that can be used as an event to be monitored by an NSF.

  - **I2NSF NSF-Facing Interface:** The NSF monitoring data model specifies a list of event that can trigger the ECA (Event-Condition-Action) policy at NSF-Facing Interface.

• NSF Resource Monitoring
  - **I2NSF Registration Interface:** I2NSF framework needs to manage an NSF (as a VNF)’s lifecycle by DMS. The NSF monitoring can give resource usage states to DMS for load balancing and lifecycle management.
Next Steps

• We will change the current YANG data model to the YANG data model of Object-Oriented Style, such as Decorator patterns.

• After the proofreading by the authors of the NSF Capabilities Information Model document, we will correct the data model and finalize it.

• We will discuss how to merge the information model draft and data model draft on NSF monitoring.