I2NSF Data Model of Consumer-Facing Interface for Security Management

draft-jeong-i2nsf-consumer-facing-interface-dm-05

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Introduction

• This document describes an YANG data model for Consumer-Facing Interface between I2NSF User and Security Controller in I2NSF system in a NFV environment

• A data model is required for enabling different users of a given I2NSF system to manage security policies for specific flows
**Introduction**

- The data model is derived from the information model in “draft-kumar-i2nsf-client-facing-interface-im-04”
- The information model defines the managed objects and their relationship to build the interface

Diagram:

```
Policy IM
   /    
Rules  Multi Tenancy  End Groups  Threat Feed  Telemetry Data
```
Introduction

- The information model is organized based on the “Event-Condition-Action” (ECA) policy model
- The main objective of this draft is to fully transform the information model into an YANG data model that can be used for delivering control via the Consumer-Facing Interface
Updates of Version
The following changes are made from draft-jeong-i2nsf-consumer-facing-interface-dm-04

- Data tree model has been revised according to the information model and Event-Condition-Action (ECA) based policy generation

- YANG data model has been revised using the data tree model

- The data tree model and the YANG data model for use case have also been modified for ECA-based policy generation

- An example XML output for use case has been added in appendix
Major Update of Version

Data Model for Consumer-Facing-Interface

Multi Tenancy

End Group

Threat Feed

Telemetry Data

Policy
## Event
Determine condition clause of the policy rule can be evaluated or not.

## Condition
Action in policy rule can be executed or not.

## Action
Simple permit/deny/rate-limiting, etc.
Next Step

- We will discuss with IM & DM team for
  - the consistency between IM and DM
  - the generalization of the data model for more use cases
Thank you!