



Consumer Facing Interface Data Model

(draft-ietf-i2nsf-consumer-facing-interface-dm-00)

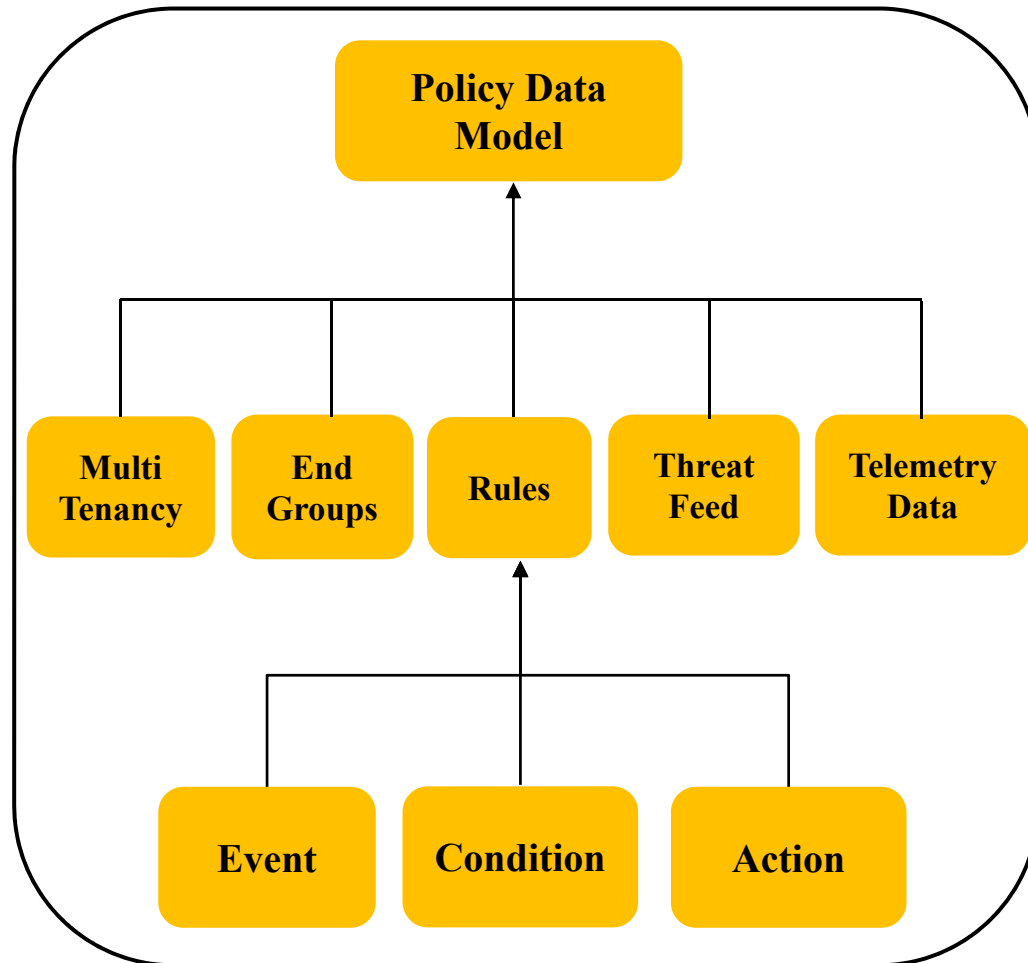
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Updates from the Previous Version

- The following changes are made from draft-jeong-i2nsf-consumer-facing-interface-dm-05:
 - The YANG data model has been modified so that a policy-domain object can have multiple tenants.
 - The overall organization of the YANG data model and its data types have also been reviewed and corrected.
 - The reviewed data tree model and YANG fully adopted Event-Condition-Action (ECA) scheme.
 - Overall editorial errors have been corrected.

Overview

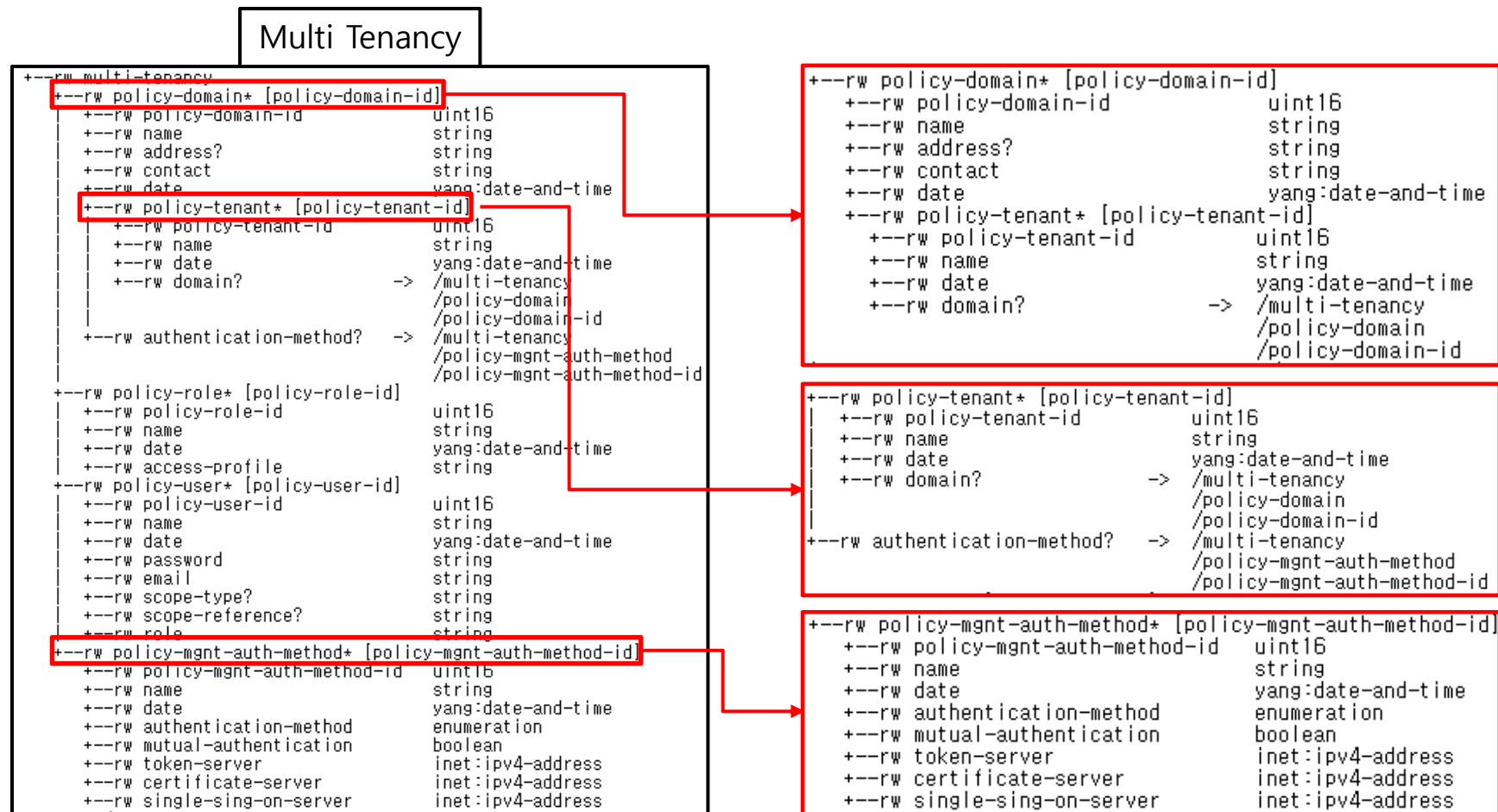


- The main objective of this document is to fully transform the information model into a YANG data model.
- This data model can be used for delivering control via the Consumer-Facing Interface.

- The information model is organized based on the “Event-Condition-Action” (ECA) policy model

Major Changes

- The YANG data model has been modified so that a policy-domain object can have multiple tenants.



Minor Changes

```
+--rw end-group
+--rw meta-data-source+ [meta-data-source-id]
| ...
+--rw user-group+ [user-group-id]
| ...
+--rw device-group+ [device-group-id]
| ...
+--rw application-group+ [application-group-id]
|| ...
+--rw location-group+ [location-group-id]
...

```



```
+--rw end-group
+--rw meta-data-source+ [meta-data-source-id]
| +--rw meta-data-source-id      uint16
| +--rw name                     string
| +--rw date                     yang:date-and-time
| +--rw tag-type?                boolean
| +--rw tag-server-information?  inet:ipv4-address
| +--rw tag-application-protocol? string
| +--rw tag-server-credential?  string
+--rw user-group+ [user-group-id]
| +--rw user-group-id            uint16
| +--rw name?                   string
| +--rw date?                   yang:date-and-time
| +--rw group-type?             enumeration
| +--rw meta-data-server?       inet:ipv4-address
| +--rw group-member?           string
| +--rw risk-level?             uint16
+--rw device-group+ [device-group-id]
| +--rw device-group-id         uint16
| +--rw name?                   string
| +--rw date?                   yang:date-and-time
| +--rw group-type?             enumeration
| +--rw meta-data-server?       inet:ipv4-address
| +--rw group-member?           string
| +--rw risk-level?             uint16
+--rw application-group+ [application-group-id]
| +--rw application-group-id     uint16
| +--rw name?                   string
| +--rw date?                   yang:date-and-time
| +--rw group-type?             enumeration
| +--rw meta-data-server?       inet:ipv4-address
| +--rw group-member?           string
| +--rw risk-level?             uint16
+--rw location-group+ [location-group-id]

```

The overall organization of the YANG data model and its **data types** have also been reviewed and corrected.

Next Steps

- We will discuss with the IM & DM teams for
 - in-depth analysis on the information model,
 - the generalization of the data model for more use cases such as DDoS attack, and
 - the inclusion of threat information expressions by referring to the data model of STIX (Structured Threat Information Expression).