I2NSF Capability YANG Data Model
(draft-hares-i2nsf-capability-data-model-06)

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Updates from the Previous Version

• The Previous Draft:
  – draft-hares-i2nsf-capability-data-model-05

• This draft defines a YANG Data Model (DM) corresponding to the Information Model (IM) for NSF-Facing Interface and Registration Interface.
  – draft-ietf-i2nsf-capabilities-00
  – draft-ietf-i2nsf-nsf-facing-interface-dm-00
  – draft-hyun-i2nsf-registration-interface-im-04
List of Changes

• Modification of Time Zone
• Addition of Port Number to Condition Clause
• Object-Oriented Features (Ongoing)
Modification of Time Zone

- We added not only an **absolute time zone** but also a **periodic time zone** to net-sec-capabilities.

OLD:

```
+---rw i2nsf-net-sec-caps
    +---rw net-sec-capabilities* [nsc-capabilities-name]
        +---rw nsc-capabilities-name   string
            +---rw time-zone
                |   +---rw time?  boolean
                |   +---rw date?  boolean
```

NEW:

```
+---rw i2nsf-net-sec-caps
    +---rw net-sec-capabilities* [nsc-capabilities-name]
        +---rw nsc-capabilities-name   string
        +---rw rule-description?   boolean
        +---rw rule-rev?   boolean
        +---rw rule-priority?   boolean
            +---rw time-zone
                |   +---rw absolute-time-zone
                |   |   +---rw time?  boolean
                |   |   +---rw date?  boolean
                |   +---rw periodic-time-zone
                |       +---rw day?  boolean
                |       +---rw month? boolean
```
Addition of Port Number to Condition Clause

- We added a port number to a condition clause.

**OLD:**

```plaintext
+++rw packet-security-tcp-condition
| | +++rw pkt-sec-cond-tcp-seq-num? boolean
| | +++rw pkt-sec-cond-tcp-ack-num? boolean
| | +++rw pkt-sec-cond-tcp-window-size? boolean
| | +++rw pkt-sec-cond-tcp-flags? boolean
| | +++rw packet-security-udp-condition
| | +++rw pkt-sec-cond-udp-src-port? boolean
| | +++rw pkt-sec-cond-udp-length? boolean
```

**NEW:**

```plaintext
+++rw packet-security-tcp-condition
| | +++rw pkt-sec-cond-tcp-src-port? boolean
| | +++rw pkt-sec-cond-tcp-dest-port? boolean
| | +++rw pkt-sec-cond-tcp-seq-num? boolean
| | +++rw pkt-sec-cond-tcp-ack-num? boolean
| | +++rw pkt-sec-cond-tcp-window-size? boolean
| | +++rw pkt-sec-cond-tcp-flags? boolean
| | +++rw packet-security-udp-condition
| | +++rw pkt-sec-cond-udp-src-port? boolean
| | +++rw pkt-sec-cond-udp-dest-port? boolean
| | +++rw pkt-sec-cond-udp-length? boolean
```
Next Steps

• We will change the current YANG data model to the YANG data model of Object-Oriented (OO) Style.

• We will verify the OO YANG data model by implementing a prototype in the next Hackathon.