

A YANG Data model for Event Management

draft-wwx-netmod-event-yang-02

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Recap

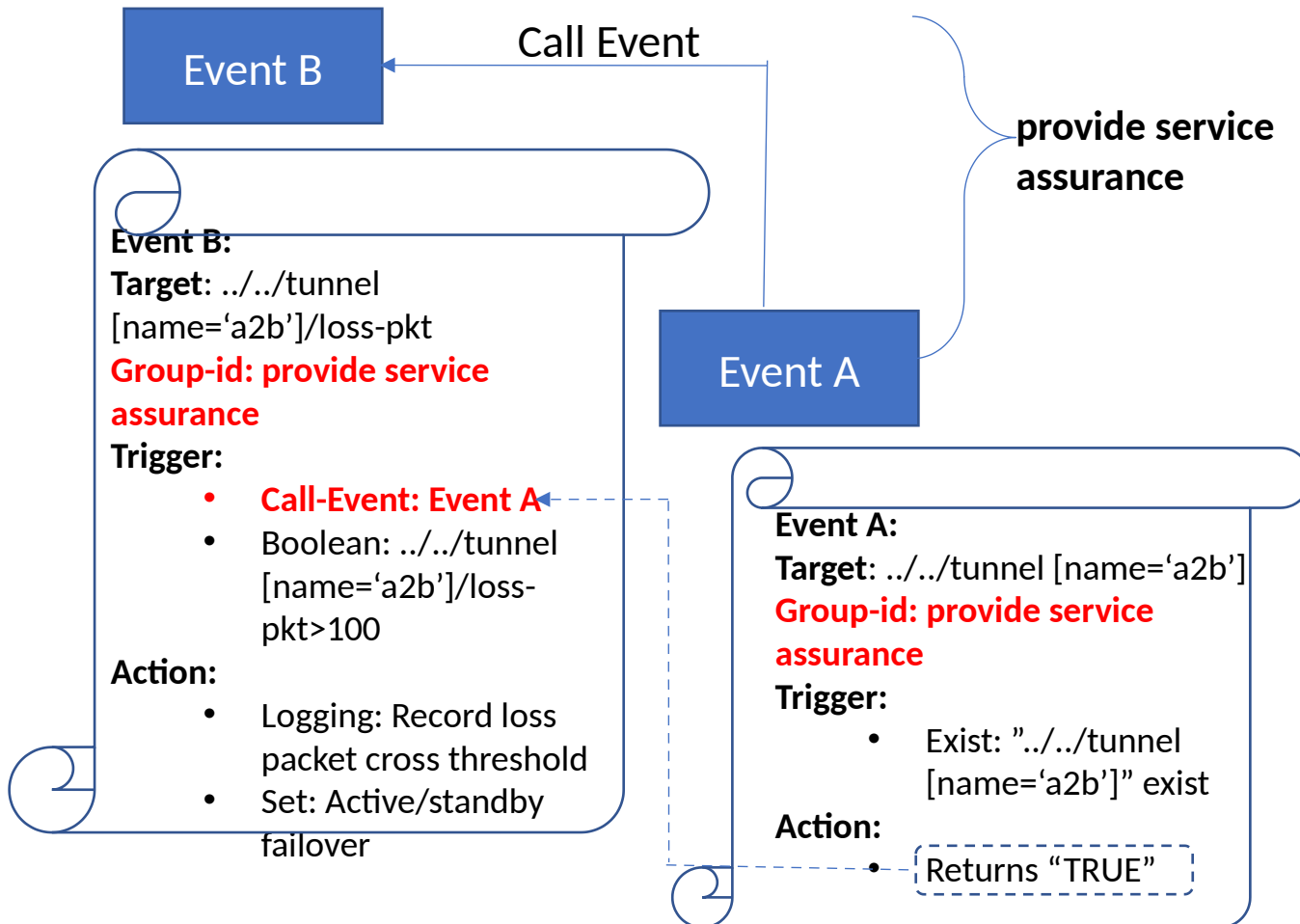
- This draft defines a YANG data model for the ECA based network policy management
 - Provides the ability for the network management function (i.e. a controller, an orchestrator, or a network element) to control the configuration and monitor state change on the network element;
 - Take simple and instant action when a trigger condition on the system state is met.
- This draft was discussed twice in the Working Group (IETF103 & IETF104).
- Many people are interesting in related works.

Updates since the IETF 104

- Add: Group ID Leaf
 - it can be used to group a set of event that can be executed together, e.g., provide service assurance.
- Refine: Nested Event Leaf
 - allow one event's trigger to reference other event's definitions using the call-event leaf.
- Rename: Variation Container
 - Change threshold trigger condition into variation trigger condition to further clarify the difference between Boolean trigger condition and variation trigger condition.
- Simplify: Actions Container

```
module: ietf-event
  +--rw events
    +--rw event* [event-name type]
      +--rw event-name      string
      +--rw type             identityref
      +--rw event-description? string
      +--rw group-id?       group-type
      +--rw target*         trig:target
      +--rw clear?          boolean
      +--rw trigger* [name]
        +--rw name          string
        +--rw call-event?   -> ../../event-name
        ...
        +--rw (test)?
          +--:(existences)
            +--rw existences
            ...
          +--:(boolean)
            +--rw boolean
            ...
          +--:(variation)
            +--rw variation
            ...
        ...
      +--rw actions
        +--rw target?      trig:target
        +--rw value?       <anydata>
        +--rw logging?    logging-type
```

Usage Example



- **Event A:** A TE tunnel (tunnel a2b) is set up between VPN's site A and site B;
 - **Target:** .././tunnel [name='a2b']
 - **Group-id: provide service assurance**
 - **Trigger :** this tunnel be set up successfully (tunnel 'a2b' Exist)
 - **Action:** returns an effective boolean true value to the calling event.
- **Event B:** Monitor the tunnel a2b's loss packets number
 - **Target :** .././tunnel [name='a2b'] /loss-pkts
 - **Group-id: provide service assurance**
 - **Trigger:**
 1. **Call event: Event A - If Event A is triggered, it returns "TRUE"**
 2. Loss packets number cross the threshold
 - **Action:**
 1. Record Event B.
 2. and automatic set corresponding value, for example active/standby failover

Next Steps

- Adopted as workgroup document?