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**
• **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?