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Filter of Configuration Change Notifications
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Abstract

This document extends the YANG-Push notification subscription mechanism for on-change to reduce unnecessary reporting after an on-change YANG-Push notification is generated.

Requirements Language

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

Status of This Memo

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1. Introduction

According to the YANG PUSH protocol, once the subscriber subscribes to notifications of data store changes, the NETCONF server will report notifications according to the push-change-update notification format defined in the YANG PUSH protocol ([RFC8641]) as soon as changes in the data store are detected.

Even if the change is caused by this subscriber, the notification will be reported. The subscriber MAY not want to receive the notification. To filter out push-change-update notifications originating from this subscriber, a subscription method that supports filter local push-change-update notifications based on the subscription rules needs to be provided. This capability enables the filtering of on-change YANG-Push notifications according to the subscription rules.

This specification applies to the YANG push dynamic Subscriptions defined in Section 2.4 of [RFC8639]. As defined in Section 2.4 of [RFC8639], the subscriber can create a dynamic subscription using establish-subscription, and change an existing dynamic subscription using modify-subscription.

As described in Section 3.5.2 of [RFC8641], if the update-trigger is set to on-change, the NETCONF server will report notifications according to the push-change-update notification format defined in the YANG PUSH protocol ([RFC8641]) as soon as changes in the data store are detected. However, if these changes are caused by the subscriber itself, the subscriber already holds these changes and does not need to receive additional Yang-Push notifications from the publisher.

This document extends the current on-change YANG-Push notification subscription mechanism to reduce unnecessary reports after on-change YANG-Push notifications are generated.

2. Extend the On-change Update-trigger

The YANG notifications subscription OPTIONALLY can be restricted to the following YANG module augment

excluded-self-change: Used to restrict a push-change-update notification that was triggered by the subscriber itself if need report to subscriber.

When a NETCONF client uses the RPC establish-subscription to create a subscription, if you want to filter out data store change notifications caused by the RPC operations of this client, you can specify excluded-self-change as enable.

When a NETCONF client uses the RPC modify-subscription to modify the subscription, if you want to change it to filter out, specify excluded-self-change as enable; if you want to change it to not filter out, specify excluded-self-change as disable.

Figure 1 provides an example of a "establish-subscription" RPC call with excluded-self-change and datastore-xpath-filter for on-change subscription. Figure 2 shows the response when the RPC has been accepted by the NETCONF server. Figure 3 provides an example of a "modify-subscription" RPC call with excluded-self-change for on-change subscription.

```
<rpc message-id="101"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <establish-subscription
    xmlns="urn:ietf:params:xml:ns:yang:ietf-subscribed-notifications"
    xmlns:yp="urn:ietf:params:xml:ns:yang:ietf-yang-push">
    xmlns:ypf="urn:ietf:params:xml:ns:yang:ietf-yang-push-noti-filter">
    <yp:datastore
      xmlns:ds="urn:ietf:params:xml:ns:yang:ietf-datastores">
      ds:running
    </yp:datastore>
    <yp:datastore-xpath-filter
      xmlns:ex="https://example.com/sample-data/1.0">
      /ex:foo
    </yp:datastore-xpath-filter>
    <yp:on-change>
      <ypf:excluded-self-change>enable</ypf:excluded-self-change>
    </yp:on-change>
  </establish-subscription>
</rpc>
```

Figure 1: RPC Example for an establish-subscription

```
<rpc-reply message-id="101"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <id
    xmlns="urn:ietf:params:xml:ns:yang:ietf-subscribed-notifications">
    1011
  </id>
</rpc-reply>
```

Figure 2: RPC Example for establish-subscription response

```
<rpc message-id="102"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <modify-subscription
    xmlns=
      "urn:ietf:params:xml:ns:yang:ietf-subscribed-notifications"
    xmlns:yp="urn:ietf:params:xml:ns:yang:ietf-yang-push">
    <id>1011</id>
    <yp:on-change>
      <ypf:excluded-self-change>disable</ypf:excluded-self-change>
    </yp:on-change>
  </modify-subscription>
</rpc>
```

Figure 3: RPC Example for an modify-subscription

3. The "ietf-yang-push-noti-filter" Module

3.1. Data Model Overview

This YANG module extends the "ietf-yang-push" module and the "ietf-subscribed-notifications" module by defining "excluded-self-change" in the "establish-subscription" and "modify-subscription" RPCs for data store push subscription

3.1.1. Tree View

The following is the YANG tree diagram [RFC8340] for the ietf-yang-push-noti-filter YANG module

```
module: ietf-yang-push-noti-filter
  augment /sn:establish-subscription/sn:input/yp:update-trigger/yp:on-change:
    +-- excluded-self-change? enumeration
  augment /sn:modify-subscription/sn:input/yp:update-trigger/yp:on-change:
    +-- excluded-self-change? enumeration
```

3.1.2. Full Tree View

The following is the YANG tree diagram [RFC8340] for the the ietf-yang-push-noti-filter augmentation within the ietf-subscribed-notifications, including the RPCs and notifications.

```
module: ietf-subscribed-notifications
  +--ro streams
  |   +--ro stream* [name]
  |   |   +--ro name string
  |   |   +--ro description? string
  |   |   +--ro replay-support? empty {replay}?
  |   |   +--ro replay-log-creation-time yang:date-and-time {replay}?
  |   |   +--ro replay-log-aged-time? yang:date-and-time {replay}?
  +--rw filters
  |   +--rw stream-filter* [name]
  |   |   +--rw name string
  |   |   +--rw (filter-spec)?
  |   |   |   +--:(stream-subtree-filter)
  |   |   |   |   +--rw stream-subtree-filter? <anydata> {subtree}?
  |   |   |   +--:(stream-xpath-filter)
  |   |   |   |   +--rw stream-xpath-filter? yang:xpath1.0 {xpath}?
  +--rw yp:selection-filter* [filter-id]
  |   +--rw yp:filter-id string
  |   +--rw (yp:filter-spec)?
  |   |   +--:(yp:datastore-subtree-filter)
  |   |   |   +--rw yp:datastore-subtree-filter? <anydata>
  |   |   |   |   {sn:subtree}?
  |   |   |   {sn:subtree}?
```

```

|         +---:(yp:datastore-xpath-filter)
|         |         +---rw yp:datastore-xpath-filter?         yang:xpath1.0
|         |         |         {sn:xpath}?
+---rw subscriptions
|   +---rw subscription* [id]
|   |   +---rw id
|   |   |   subscription-id
|   |   +---rw (target)
|   |   |   +---:(stream)
|   |   |   |   +---rw (stream-filter)?
|   |   |   |   |   +---:(by-reference)
|   |   |   |   |   |   +---rw stream-filter-name
|   |   |   |   |   |   |   stream-filter-ref
|   |   |   |   |   +---:(within-subscription)
|   |   |   |   |   |   +---rw (filter-spec)?
|   |   |   |   |   |   |   +---:(stream-subtree-filter)
|   |   |   |   |   |   |   |   +---rw stream-subtree-filter?
|   |   |   |   |   |   |   |   |   <anydata> {subtree}?
|   |   |   |   |   |   |   +---:(stream-xpath-filter)
|   |   |   |   |   |   |   |   +---rw stream-xpath-filter?
|   |   |   |   |   |   |   |   |   yang:xpath1.0 {xpath}?
|   |   |   +---rw stream
|   |   |   |   stream-ref
|   |   +---ro replay-start-time?
|   |   |   yang:date-and-time {replay}?
|   |   +---rw configured-replay?
|   |   |   {configured,replay}?
|   |   +---:(yp:datastore)
|   |   |   +---rw yp:datastore
|   |   |   |   identityref
|   |   |   +---rw (yp:selection-filter)?
|   |   |   |   +---:(yp:by-reference)
|   |   |   |   |   +---rw yp:selection-filter-ref
|   |   |   |   |   |   selection-filter-ref
|   |   |   |   +---:(yp:within-subscription)
|   |   |   |   |   +---rw (yp:filter-spec)?
|   |   |   |   |   |   +---:(yp:datastore-subtree-filter)
|   |   |   |   |   |   |   +---rw yp:datastore-subtree-filter?
|   |   |   |   |   |   |   |   <anydata> {sn:subtree}?
|   |   |   |   |   |   |   +---:(yp:datastore-xpath-filter)
|   |   |   |   |   |   |   |   +---rw yp:datastore-xpath-filter?
|   |   |   |   |   |   |   |   |   yang:xpath1.0 {sn:xpath}?
|   |   +---rw stop-time?
|   |   |   yang:date-and-time
|   +---rw dscp?
|   |   inet:dscp {dscp}?
+---rw weighting?
|   {qos}?

```

empty

uint8

```

+--rw dependency?
|   subscription-id {qos}?
+--rw transport?
|   transport {configured}?
+--rw encoding?
|   encoding
+--rw purpose?                                     string
|   {configured}?
+--rw (notification-message-origin)? {configured}?
|   +--:(interface-originated)
|   |   +--rw source-interface?
|   |   |   if:interface-ref {interface-designation}?
|   +--:(address-originated)
|   |   +--rw source-vrf?
|   |   |   -> /ni:network-instances/network-instance/name
|   |   |   {supports-vrf}?
|   |   +--rw source-address?
|   |   |   inet:ip-address-no-zone
+--ro configured-subscription-state?
|   enumeration {configured}?
+--rw receivers
|   +--rw receiver* [name]
|   |   +--rw name                                     string
|   |   +--ro sent-event-records?
|   |   |   yang:zero-based-counter64
|   |   +--ro excluded-event-records?
|   |   |   yang:zero-based-counter64
|   |   +--ro state                                     enumeration
|   |   +---x reset {configured}?
|   |   |   +--ro output
|   |   |   |   +--ro time yang:date-and-time
+--rw (yp:update-trigger)?
|   +--:(yp:periodic)
|   |   +--rw yp:periodic!
|   |   |   +--rw yp:period centiseconds
|   |   |   +--rw yp:anchor-time? yang:date-and-time
|   +--:(yp:on-change) {on-change}?
|   |   +--rw yp:on-change!
|   |   |   +--rw yp:dampening-period? centiseconds
|   |   |   +--rw yp:sync-on-start? boolean
|   |   |   +--rw yp:excluded-change* change-type

rpcs:
+---x establish-subscription
|   +---w input
|   |   +---w (target)
|   |   |   +--:(stream)
|   |   |   |   +---w (stream-filter)?

```

```

+---:(by-reference)
|   +---w stream-filter-name
|       stream-filter-ref
+---:(within-subscription)
|   +---w (filter-spec)?
|       +---:(stream-subtree-filter)
|           +---w stream-subtree-filter?
|               <anydata> {subtree}?
|       +---:(stream-xpath-filter)
|           +---w stream-xpath-filter?
|               yang:xpath1.0 {xpath}?
+---w stream
|   stream-ref
+---w replay-start-time?
|   yang:date-and-time {replay}?
+---:(yp:datastore)
|   +---w yp:datastore
|       identityref
+---w (yp:selection-filter)?
|   +---:(yp:by-reference)
|       +---w yp:selection-filter-ref
|           selection-filter-ref
+---:(yp:within-subscription)
|   +---w (yp:filter-spec)?
|       +---:(yp:datastore-subtree-filter)
|           +---w yp:datastore-subtree-filter?
|               <anydata> {sn:subtree}?
|       +---:(yp:datastore-xpath-filter)
|           +---w yp:datastore-xpath-filter?
|               yang:xpath1.0 {sn:xpath}?
+---w stop-time?
|   yang:date-and-time
+---w dscp?
|   inet:dscp {dscp}?
+---w weighting?
|   {qos}?
+---w dependency?
|   subscription-id {qos}?
+---w encoding?
|   encoding
+---w (yp:update-trigger)?
|   +---:(yp:periodic)
|       +---w yp:periodic!
|           +---w yp:period
|               centiseconds
|           +---w yp:anchor-time?
|               yang:date-and-time
+---:(yp:on-change) {on-change}?
|   +---w yp:on-change!
|       +---w yp:dampening-period?
|           centiseconds

```

uint8


```

|         +---w yp:sync-on-start?          boolean
|         +---w yp:excluded-change*        change-type
|         +---w ypf:excluded-self-change*  enumeration
+---ro output
|   +---ro id          subscription-id
|   +---ro replay-start-time-revision?    yang:date-and-time
|       {replay}?
+---x modify-subscription
|   +---w input
|       +---w id
|           subscription-id
|   +---w (target)
|       +---:(stream)
|           +---w (stream-filter)?
|               +---:(by-reference)
|                   +---w stream-filter-name
|                       stream-filter-ref
|               +---:(within-subscription)
|                   +---w (filter-spec)?
|                       +---:(stream-subtree-filter)
|                           +---w stream-subtree-filter?
|                               <anydata> {subtree}?
|                       +---:(stream-xpath-filter)
|                           +---w stream-xpath-filter?
|                               yang:xpath1.0 {xpath}?
|       +---:(yp:datastore)
|           +---w yp:datastore
|               identityref
|           +---w (yp:selection-filter)?
|               +---:(yp:by-reference)
|                   +---w yp:selection-filter-ref
|                       selection-filter-ref
|               +---:(yp:within-subscription)
|                   +---w (yp:filter-spec)?
|                       +---:(yp:datastore-subtree-filter)
|                           +---w yp:datastore-subtree-filter?
|                               <anydata> {sn:subtree}?
|                       +---:(yp:datastore-xpath-filter)
|                           +---w yp:datastore-xpath-filter?
|                               yang:xpath1.0 {sn:xpath}?
|       +---w stop-time?
|           yang:date-and-time
|       +---w (yp:update-trigger)?
|           +---:(yp:periodic)
|               +---w yp:periodic!
|                   +---w yp:period          centiseconds
|                   +---w yp:anchor-time?    yang:date-and-time
|       +---:(yp:on-change) {on-change}?

```

```

|           +---w yp:on-change!
|           +---w yp:dampening-period?          centiseconds
|           +---w ypf:excluded-self-change*      enumeration
+---x delete-subscription
|   +---w input
|       +---w id      subscription-id
+---x kill-subscription
|   +---w input
|       +---w id      subscription-id

```

notifications:

```

+---n replay-completed {replay}?
|   +--ro id      subscription-id
+---n subscription-completed {configured}?
|   +--ro id      subscription-id
+---n subscription-modified
|   +--ro id
|       |      subscription-id
+--ro (target)
|   +--:(stream)
|       |      +--ro (stream-filter)?
|       |          |      +--:(by-reference)
|       |          |          |      +--ro stream-filter-name
|       |          |          |          |      stream-filter-ref
|       |          +--:(within-subscription)
|       |              +--ro (filter-spec)?
|       |                  +--:(stream-subtree-filter)
|       |                      |      +--ro stream-subtree-filter?
|       |                      |          <anydata> {subtree}?
|       |                  +--:(stream-xpath-filter)
|       |                      +--ro stream-xpath-filter?
|       |                          yang:xpath1.0 {xpath}?
|       +--ro stream
|           |      stream-ref
|       +--ro replay-start-time?
|           yang:date-and-time {replay}?
+--:(yp:datastore)
|   +--ro yp:datastore
|       |      identityref
|   +--ro (yp:selection-filter)?
|       +--:(yp:by-reference)
|           |      +--ro yp:selection-filter-ref
|           |          |      selection-filter-ref
|       +--:(yp:within-subscription)
|           +--ro (yp:filter-spec)?
|               +--:(yp:datastore-subtree-filter)
|                   |      +--ro yp:datastore-subtree-filter?
|                   |          <anydata> {sn:subtree}?

```

```

|         +---:(yp:datastore-xpath-filter)
|         |         +---ro yp:datastore-xpath-filter?
|         |         |         yang:xpath1.0 {sn:xpath}?
+---ro stop-time?
|         yang:date-and-time
+---ro dscp?
|         inet:dscp {dscp}?
+---ro weighting?                                uint8
|         {qos}?
+---ro dependency?
|         subscription-id {qos}?
+---ro transport?
|         transport {configured}?
+---ro encoding?                                encoding
+---ro purpose?                                string
|         {configured}?
+---ro (yp:update-trigger)?
|         +---:(yp:periodic)
|         |         +---ro yp:periodic!
|         |         |         +---ro yp:period            centiseconds
|         |         |         +---ro yp:anchor-time?      yang:date-and-time
+---:(yp:on-change) {on-change}?
|         +---ro yp:on-change!
|         |         +---ro yp:dampening-period?          centiseconds
|         |         +---ro yp:sync-on-start?              boolean
|         |         +---ro yp:excluded-change*            change-type
+---n subscription-resumed
|         +---ro id      subscription-id
+---n subscription-started {configured}?
|         +---ro id
|         |         subscription-id
+---ro (target)
|         +---:(stream)
|         |         +---ro (stream-filter)?
|         |         |         +---:(by-reference)
|         |         |         |         +---ro stream-filter-name
|         |         |         |         |         stream-filter-ref
|         |         |         +---:(within-subscription)
|         |         |         +---ro (filter-spec)?
|         |         |         |         +---:(stream-subtree-filter)
|         |         |         |         |         +---ro stream-subtree-filter?
|         |         |         |         |         |         <anydata> {subtree}?
|         |         |         +---:(stream-xpath-filter)
|         |         |         |         +---ro stream-xpath-filter?
|         |         |         |         |         yang:xpath1.0 {xpath}?
|         |         +---ro stream
|         |         |         stream-ref
+---ro replay-start-time?

```

```

| | | | yang:date-and-time {replay}?
| | | | +--ro replay-previous-event-time?
| | | | | yang:date-and-time {replay}?
| | | | +---:(yp:datastore)
| | | | | +--ro yp:datastore
| | | | | | identityref
| | | | | +--ro (yp:selection-filter)?
| | | | | | +---:(yp:by-reference)
| | | | | | | +--ro yp:selection-filter-ref
| | | | | | | | selection-filter-ref
| | | | | | +---:(yp:within-subscription)
| | | | | | | +--ro (yp:filter-spec)?
| | | | | | | | +---:(yp:datastore-subtree-filter)
| | | | | | | | | +--ro yp:datastore-subtree-filter?
| | | | | | | | | | <anydata> {sn:subtree}?
| | | | | | | +---:(yp:datastore-xpath-filter)
| | | | | | | | +--ro yp:datastore-xpath-filter?
| | | | | | | | | yang:xpath1.0 {sn:xpath}?
| | | | +--ro stop-time?
| | | | | yang:date-and-time
| | | | +--ro dscp?
| | | | | inet:dscp {dscp}?
| | | | +--ro weighting?
| | | | | {qos}?
| | | | +--ro dependency?
| | | | | subscription-id {qos}?
| | | | +--ro transport?
| | | | | transport {configured}?
| | | | +--ro encoding?
| | | | +--ro purpose?
| | | | | {configured}?
| | | | +--ro (yp:update-trigger)?
| | | | | +---:(yp:periodic)
| | | | | | +--ro yp:periodic!
| | | | | | | +--ro yp:period centiseconds
| | | | | | | +--ro yp:anchor-time? yang:date-and-time
| | | | | +---:(yp:on-change) {on-change}?
| | | | | | +--ro yp:on-change!
| | | | | | | +--ro yp:dampening-period? centiseconds
| | | | | | | +--ro yp:sync-on-start? boolean
| | | | | | | +--ro yp:excluded-change* change-type
+---n subscription-suspended
| | +--ro id subscription-id
| | +--ro reason identityref
+---n subscription-terminated
| | +--ro id subscription-id
| | +--ro reason identityref

```

uint8

encoding
string

3.2. YANG Module

The YANG module has two leaves augmenting the model of Subscription to YANG Notifications [RFC8639] and Subscription to YANG Notifications for Datastore Updates [RFC8641].

```
<CODE BEGINS> file "ietf-yang-push-noti-filter@2024-05-31.yang"
module ietf-yang-push-noti-filter {
  yang-version 1.1;
  namespace "urn:ietf:params:xml:ns:yang:ietf-yang-push-noti-filter";
  prefix ypf;
  import ietf-subscribed-notifications {
    prefix sn;
  }
  import ietf-yang-push {
    prefix yp;
    revision-date 2019-09-09;
  }

  organization "IETF NETCONF(Network Configuration) Working Group";
  contact
    "ZTE Corporation &#xD;
    Nanjing Institute of ZTE Corporation&#xD;
    &#xD;
    No.68 Zijinghua Rd. Yuhuatai District, Nanjing, China&#xD;
    &#xD;
    Tel: +86-25-52870000";

  description
    "This module augments the YANG push subscription RPCs.

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    authors of the code. All rights reserved.

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    Relating to IETF Documents(https://trustee.ietf.org/license-info).

    This version of this YANG module is part of RFC XXXX; see the
    RFC itself for full legal notices."

  revision 2024-05-31 {
    description
      "First revision";
    reference
      "RFC XXXX: Filter of Configuration Change Notifications"
```

```
        Subscription";
    }

    augment "/sn:establish-subscription/sn:input/yp:update-trigger/" +
        "yp:on-change/yp:on-change" {
        leaf excluded-self-change {
            type enumeration {
                enum enable {
                    description
                        "Enable excluded-self-change.";
                }
                enum disable {
                    description
                        "Disable excluded-self-change.";
                }
            }
            description
                "Used to restrict a push-change-update notification that
                triggered by the subscriber self if need report to
                subscriber.";
        }

        description
            "This augmentation adds additional subscription parameters to
            the establish-subscription RPC.";
    }

    augment "/sn:modify-subscription/sn:input/yp:update-trigger/" +
        "yp:on-change/yp:on-change" {
        leaf excluded-self-change {
            type enumeration {
                enum enable {
                    description
                        "Enable excluded-self-change.";
                }
                enum disable {
                    description
                        "Disable excluded-self-change.";
                }
            }
        }

        description
            "Used to restrict a push-change-update notification that
            triggered by the subscriber self if need report to subscriber.";
    }
    description
        "This augmentation adds additional subscription parameters to the
        modify-subscription RPC.";
```

```
}  
}  
<CODE ENDS>
```

4. IANA Considerations

4.1. IETF XML Registry

This document registers the following URIs in the "IETF XML Registry" [RFC3688]:

URI: urn:ietf:params:xml:ns:yang:ietf-yang-push-noti-filter
Registrant Contact: The IESG.
XML: N/A; the requested URI is an XML namespace.

4.2. YANG Module Name

This document registers the following YANG modules in the "YANG Module Names" registry [RFC6020]:

name: ietf-yang-push-noti-filter
namespace: urn:ietf:params:xml:ns:yang:ietf-yang-push-noti-filter
prefix: ypf
reference: RFC-to-be

5. Security Considerations

The security considerations for the YANG notifications subscription mechanism are described in [RFC8641]. This documents adds no additional security considerations.

6. References

6.1. Normative References

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6.2. Informative References

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