



# Yang-Push Notification Capabilities

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[draft-ietf-netconf-notification-capabilities-01](#)

# History

- › Draft dormant to let other important work finish first
  - chairs request
- › Restarted now that Yang-Push is in the IESG's hands

# The problem

## A contract – “MAYBe”

- Publishers generally supporting on-change notifications will not always be able to push on-change updates for some object types
  - Frequent change (inOctets counter)
  - Meaningless small change (temperature changing 0.1 degrees)
  - Not implemented
  - Resource limitation (missing HW)
  - Small constrained network node
- Support for on-change does not mean that notifications are sent for any specific object

# Yang Model

- › Document notification capabilities
- › Yang module ietf-notification-capabilities
  - On-change capability per data node (yes or no)
    - › Practically 2 top level default values + a few exceptions for specific data nodes
    - › Inherited down the data tree
  - Other capacity related capabilities
  - Capabilities readable via Netconf/Restconf
  - Capabilities available off-line as Yang Instance data

## module: ietf-notification-capabilities

```
+--ro yangpush-notification-capabilities
  +--ro minimum-dampening-period?          uint32
  +--ro (update-period)?
    | +--:(minimum-update-period)
    | | +--ro minimum-update-period?      uint32
    | +--:(supported-update-period)
    |   +--ro supported-update-period*    uint32
  +--ro max-objects-per-update?            uint32
  |
  +--ro notification-sent-for-config-default? boolean
  +--ro notification-sent-for-state-default? boolean
  +--ro on-change-notification-capability* [node-selector]
    +--ro node-selector                    nacm:node-instance-identifier
    +--ro on-change-notification-sent      boolean
```

# Changes 00 - 01

- › Added more capabilities
  - not just for on-change method
- › General
  - max-number of objects per update
- › Periodic subscriptions
  - minimum update period
  - supported update period values
- › On-Change subscriptions
  - minimum dampening period,