YANG Push and related drafts

1. Subscribing to YANG datastore push updates – draft-ietf-netconf-yang-push-07
2. Subscribing for Notifications – draft-ietf-netconf-subscribed-notifications-03
3. NETCONF Support for Event Notifications – draft-ietf-netconf-netconf-event-notifications-04
4. RESTCONF & HTTP Transport for Event Notifications – draft-ietf-netconf-restconf-notif-02

Alexander Clemm

Authors on at least 1 drafts
Andy Bierman
Alexander Clemm
Balazs Lengyel
Einar Nilsen-Nygaard
Alberto Gonzalez Prieto
Ambika Prasad Tripathy
Eric Voit

+ Contributors
Sharon Chisholm
Yan Gang
Peipei Guo
Susan Hares
Tim Jenkins
Michael Scharf
Hector Trevino
Kent Watsen
Guangying Zheng (Walker)

Dezign™ Team
Weekend’s Hackathon Results

- Multiple vendor YANG-Push Publisher implementations (v04)
- Common Open Source Subscriber (Python)
- Successfully meets half a dozen requirements from the Security and Continuous Monitoring (SACM) WG
- Planning underway for future extensions


Henk Birkholz (Fraunhofer SIT), Guangying “Walker” Zheng (Huawei), Nancy Cam-Winget (Cisco), Christoph Vigano (Fraunhofer SIT)
Updates since Chicago
draft-ietf-Netconf-yang-push-07

• Resolved outstanding issues regarding filters
  • “Filter” is a node selector, does not match on values – simpler semantics and implementation
• Security considerations updated (and expanded)
• Clarify distinction between datastore subscription and streams
• What’s next
  • One minor update to cover agreed upon tweaks (will be uploaded with a week)
  • Latest subscription model draft incorporated a change that needs to be “tracked”
  • Two edits suggested by Martin, and third issue to re-discuss:
    • Edit: Xpath filters, to add how context for XPATH is defined – Martin to propose text, no model impact
    • Edit: Clarify no replay capability in conjunction with push – Text update has been proposed and agreed
    • Stream identity vs string – currently defined as identity for well-defined semantics.
      • well-known stream semantics
      • can build classification hierarchy of streams
      • Ad-hoc streams can be created using “custom” identity; if so desired model could be extended with a conditional “custom stream name”.
    • Pro “String”: easy ad-hoc dynamic introduction of new types of streams creating names on the fly, but issue of handling well-known stream semantics
• Request: go to WG last call
Updates since Chicago – other

- draft-ietf-netconf-subscribed-notifications-03
  - Went from -01 to -03
  - Minor updates: text tweaks, filter subtyping, clarification text on replay, new error type, RPC and notification support capability
  - Request: go to WGLC

- draft-ietf-netconf-netconf-event-notifications
  - Went from -01 to -04. General cleanups
  - Request: go to WGLC

- draft-ietf-netconf-restconf-notif
  - No update
  - Request: go to WGLC

Thank you!