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
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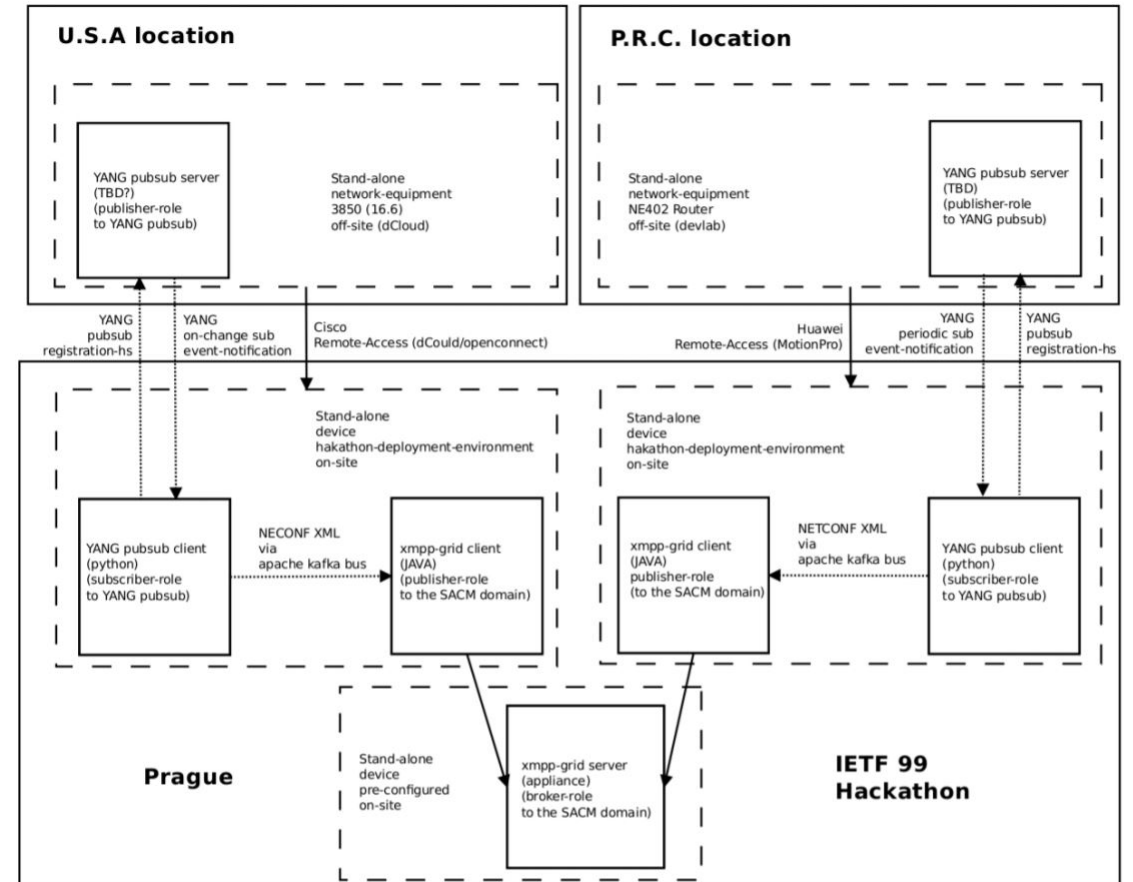Ambika Prasad Tripathy
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Dezign™ Team

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

https://github.com/IETF-Hackathon/ietf99-project-presentations/blob/master/sacm-yang-hack99.pdf
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!