Adaptive Subscription to YANG Notification

draft-ietf-netconf-adaptive-subscription-02
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Recap

• Motivation
  • A high-frequency data collection easy to identify operational data degeneration but at the cost of a great volume of data
  • A low-frequency data collection greatly reduces the data volume but hard to detect important events

• Goal
  • To balance between expensive data management cost and real-time streaming telemetry data for troubleshooting.

• Main idea
  • To perform adaptive subscription policy built on top of YANG-PUSH mechanism and allow servers to switch to different update intervals based on network condition changes.
Document Changes since 114

Thanks Adrian for the helpful comments.

• Editorial changes

• Update the adaptive subscription YANG module: add contact editor, fix IETF trust copyright statement, fix validation errors, etc.

• Clarify that the “period” must co-exist with an “xpath-external-eval” Xpath1.0 expression parameter
  • If the “xpath-external-eval” is evaluated as true, the publisher switches to the corresponding period with which push updates are reported
Document Changes since 114 (cont.)

• Clarify that existing RPC failures defined in 8639 and 8641 are still applicable to this document
  • For example, if any configured period is not supported by the publisher, a “period-unsupported” error response can be used.

• Clarify the “multi-xpath-criteria-conflict” RPC failure
  • Used when multiple Xpath evaluation expressions are evaluated as conflict (i.e., more than one condition expressions are evaluated to “true”).
  • Cause an ongoing adaptive subscription terminated -> push updates at the shortest streaming period
Comments, Questions, Concerns?