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.

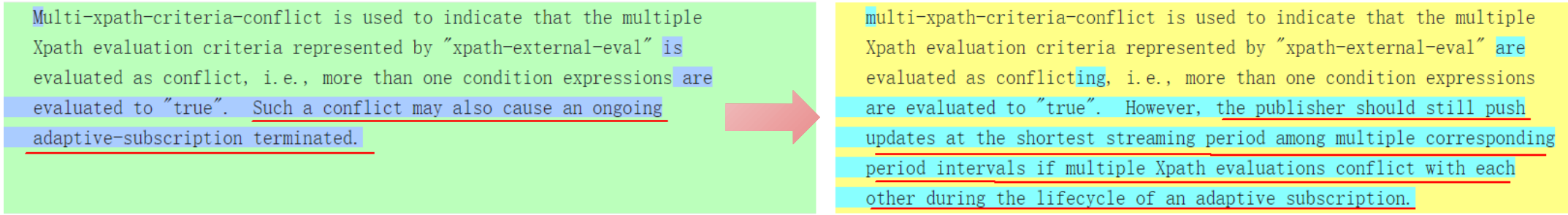
Document Changes since 114

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?