An Architecture for YANG-Push to Message Broker Integration

draft-ietf-nmop-yang-message-broker-integration-09

Motivation and architecture of a native
YANG-Push notifications and YANG Schema integration
into Message Broker and YANG Schema Registry

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Status and Summary from -08

- Addressed comments from Paul Aitke. Many thanks for the review! (https://mailarchive.ietf.org/arch/msg/nmop/dc8w2524j2RoV3ZduR7t8T0Rt7o/).
- Paul raised a valid point on YANG and Data Mesh industry adoption claims.

  That external references for this claims would help to undermine that this not just the authors opinion.

  - **We like to hear from the working group wherever references to the following documents would help or other if you have other proposals.**

  - Towards Avoiding the Data Mess: Industry Insights from Data Mesh Implementations: https://arxiv.org/html/2302.01713v4
  - Toward Building a Semantic Network Inventory for Model-Driven Telemetry: https://arxiv.org/html/2402.06511v1

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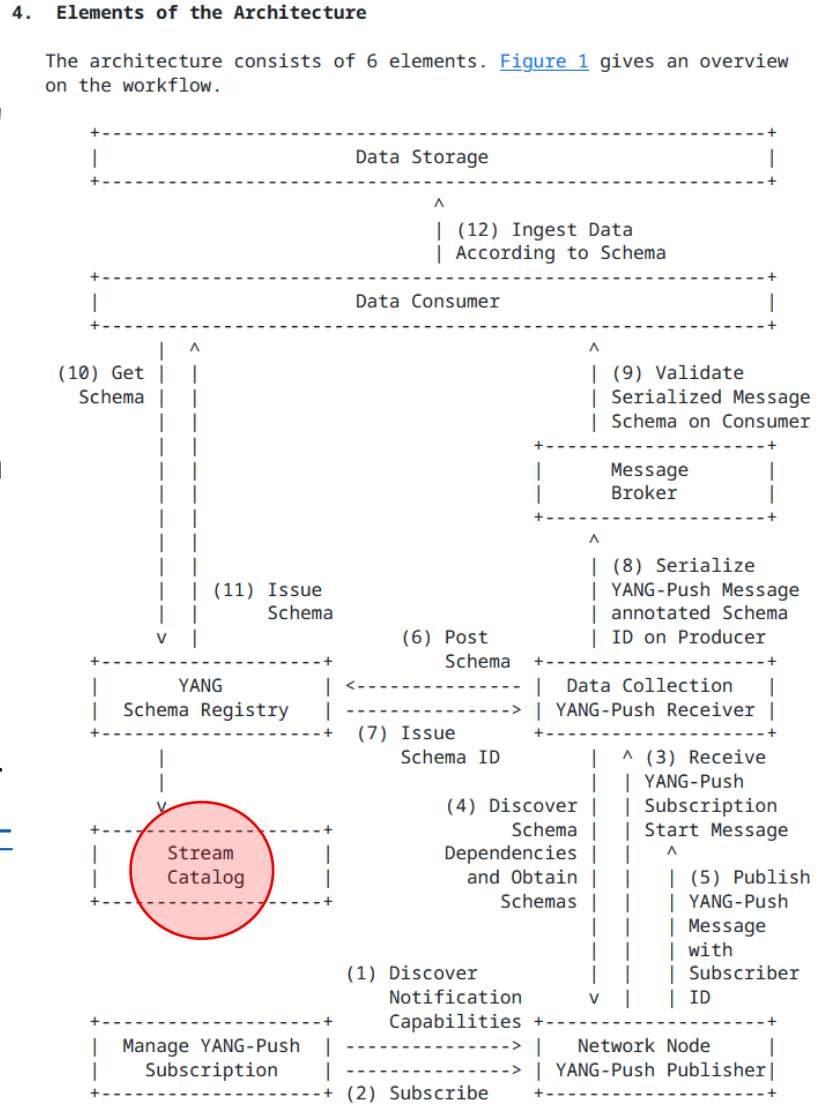
Status and Summary from -09

- Section 4.5, "Stream Catalog" was added. The term "Stream Catalog" was previously already defined. That semantics are exported to "Stream Catalog" and that end users interact with the "Streaming Catalog" is now clearly defined in the document. All other functional aspects of a "Stream Catalog" is out of document scope.
- Nacho mentioned in during IETF 123 that "Data Catalog" would be a better term than "Stream Catalog". The authors believe that "Stream Catalog" is a more commonly used term in context of Message Brokers. **What is the working group opinion?**
- Changed from "sysName" to "hostname" to adapt to changes in draft-ietf-netconf-notif-envelope.
- Changed message broker examples from RabbitMQ to Apache Pulsar since Apache Pulsar also supports draft-netana-nmop-yang-message-broker-message-key aspects.



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Next Steps

Next Steps

- The milestones in the NMOP charter aims September 2025 for "Submit Architecture for YANG-Push to Message Broker Integration to the IESG"
- The document went through several iterations and has multiple implementations. The last remaining normative referenced documents which did not pass working group last call yet are:
  - draft-ietf-netconf-yang-notifications-versioning (requested working group last call at IETF 124)
  - draft-ietf-nmop-message-broker-telemetry-message (second implementation at IETF 124, intend to request working group at IETF 125)
- **The authors suggest to trigger an early OPS directorate review to gauge wherever we have missed anything from an operations or management perspective.**
- **The authors believe that the document is stable and ready for working group last call and be submitted together with draft-ietf-nmop-message-broker-telemetry-message to IESG at IETF 125.**

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