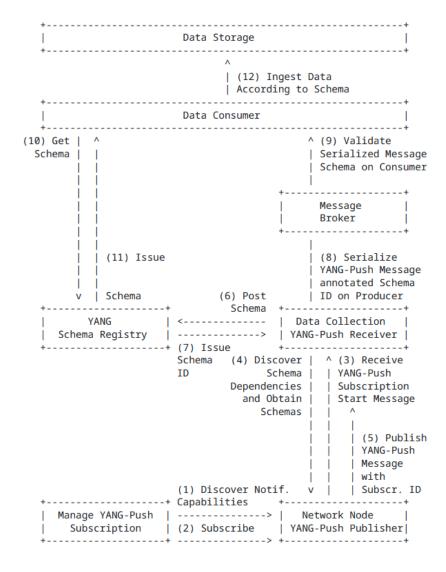
Extensible YANG Model for Network Telemetry Notifications

draft-netana-nmop-message-broker-telemetry-message

YANG-Push to Message Broker Architecture draft-ietf-nmop-yang-message-broker-integration

- The integration architecture is defined in draftietf-nmop-yang-message-broker-integration
- The message produced by the Data Collection YANG-Push receiver towards the Message Broker is assumed to be the same as the one received from the router.
- In production networks, operators often enrich collected data with additional information such as collection time and the YANG-Push subscription path.



What metadata are need?

- The network operating system collected the data
- Network platform belongs the network node
- The subscribed xpath, sub-tree filter and its schema reference
- Time of data collection received the data
- Additional provider-specific metadata is necessary for a consumer to make sense of the data

ietf-telemetry-message Schema Tree draft-netana-nmop-message-broker-telemetrymessage

- 1. When and how the message is collected
- 2. Information about the publisher node.
- 3. Information about the YANG-Push receiver
- 4. Session specific metadata, extended with augmentations.
- 5. Provider specific metadata
- YANG-Push message received from the router

module: ietf-telemetry-message +--ro message yang:date-and-time +--ro timestamp +--ro session-protocol telemetry-session-protocol-type +--ro node +--ro address inet:host inet:port-number +--ro port +--ro platform-name? string +--ro vendor? string +--ro vendor-pen? uint32 +--ro software-version? string +--ro software-flavor? strino +--ro os-version? string | +--ro os-type? string +--ro collector +--ro address inet:host inet:port-number +--ro port +--ro platform-name? string +--ro vendor? string +--ro vendor-pen? uint3 +--ro software-version? string +--ro software-flavor? strin +--ro os-version? strino +--ro os-type? strino +--ro session-metadat yang:date-and-time +--ro event-time +--ro metadata +--ro labels* [name] string +--ro name +--ro (value) +--: (string-value) +--ro (string-value)? +--: (string-value) +--ro string-value? string +--: (anydata-value) +--ro (anydata-value)? +--: (anydata-value) +--ro anydata-value? anydata +--ro pavload?

ietf-telemetry-message Schema Tree draft-netana-nmop-message-broker-telemetrymessage

Extends ietf-telemetry-message ietf-telemetry-message with YANG-Push subscription.

The subscription id and filters are obtained from the YANG-Push subscription the started message.

