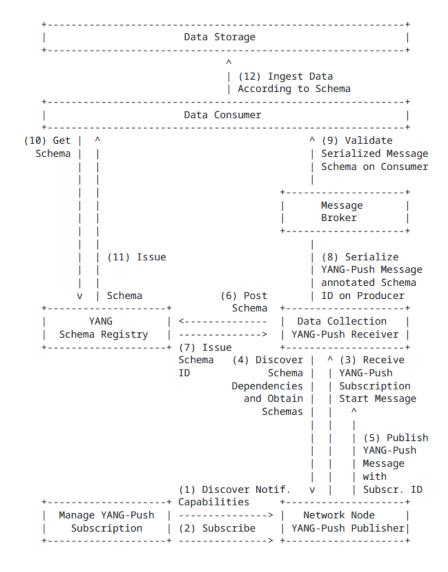
## Extensible YANG Model for Network Telemetry Notifications

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 is needed?

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

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

- 1. When and how the message is collected
- 2. Information about the publisher node.
- Information about the YANG-Push receiver
- 4. Session specific metadata, extended with augmentations.
- 5. Provider specific metadata
- 6. 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?
                                 string
      +--ro os-version?
                                 string
     +--ro os-type?
                                 string
   +--ro collector
      +--ro address
                                  inet:host
      +--ro port
                                  inet:port-number
      +--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 session-metadata
                                                    4
      +--ro event-time
                           yang:date-and-time
    +--ro metadata
      +--ro labels* [name]
          +--ro name
                           string
                                                    5
         +--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 payload?
                                                    6
```

ietf-telemetry-message YANG 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-started notification.

