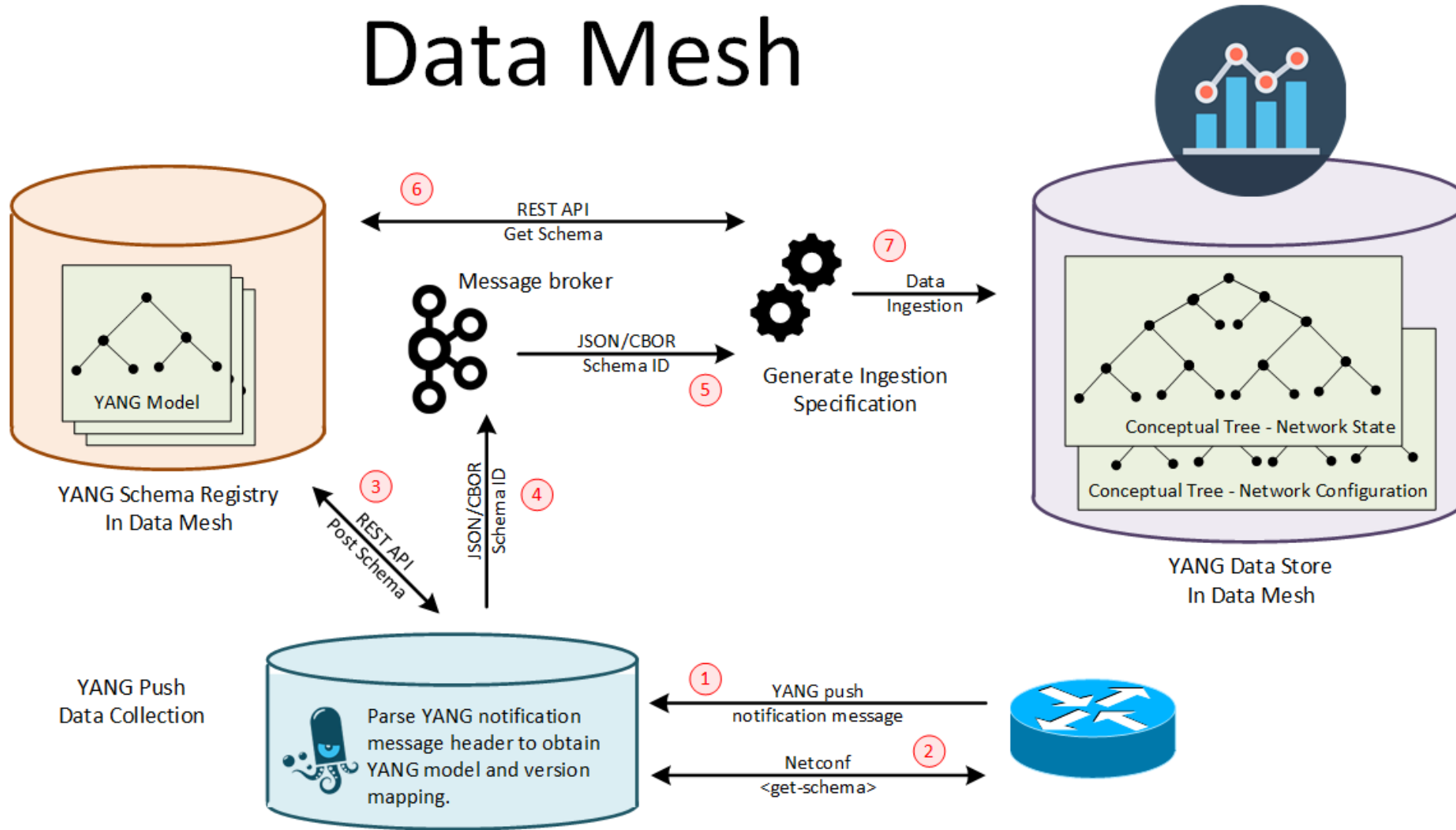


Network Telemetry - YANG Push Integration into Apache Kafka: Overview

Data Mesh



We focus on step 2 and step 3.

Network Telemetry - YANG Push Integration into Apache Kafka: Challenge

Challenge: find dependency

create module yang-push msg

```
<subscriptions>
  <subscription>
    <id>2222</id>
    <datastore>ds:operational</datastore>
    <datastore-xpath-filter>
      /a-module:a-container
    </datastore-xpath-filter>
    <encoding>encode-xml</encoding>
    <periodic>
      <period>30000</period>
    </periodic>
  </subscription>
</subscriptions>
```

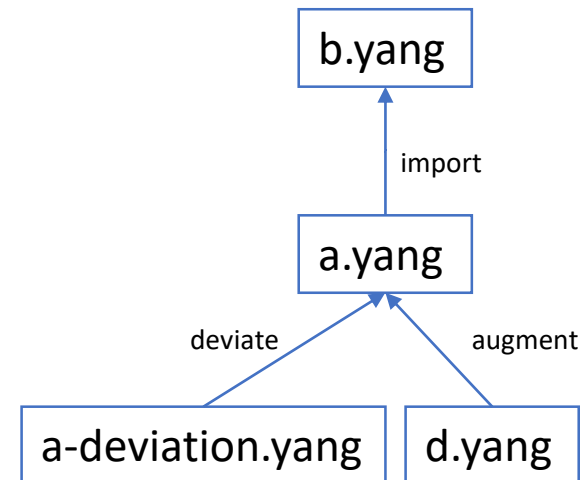
```
module: a-module
```

```
+--rw a-container
```

```
+--rw x?  b:bar
```

```
+--rw d:y
```

```
+--rw d:y-leaf?  b:myenum
```



Subscribe to: **/a-module:a-container**

Require to fetch all these modules.

Then register then into schema registry.

Network Telemetry - YANG Push Integration into Apache Kafka: Status

- Able to fetch schema from NETCONF server using libnetconf2
- Able to resolve all dependencies
- Able to generate payload for schema registry. (Tested with current schema registry)
- Implement a simulator that generate UDP-notif messages base on netopeer2 and <https://github.com/network-analytics/udp-notif-scapy>
- Ongoing integration with pmacct

Drafts:

<https://datatracker.ietf.org/doc/html/draft-ahuang-netconf-notif-yang>

<https://datatracker.ietf.org/doc/html/draft-tgraf-netconf-yang-notifications-versioning>

<https://datatracker.ietf.org/doc/html/draft-tgraf-netconf-notif-sequencing>

<https://datatracker.ietf.org/doc/html/draft-tgraf-yang-push-observation-time>