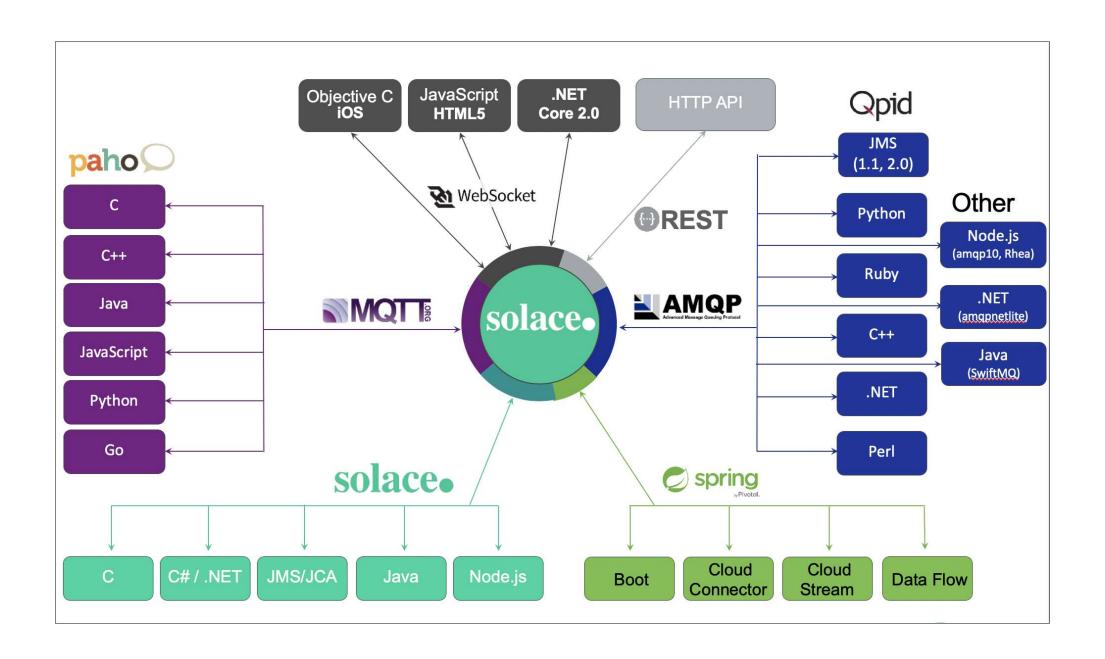
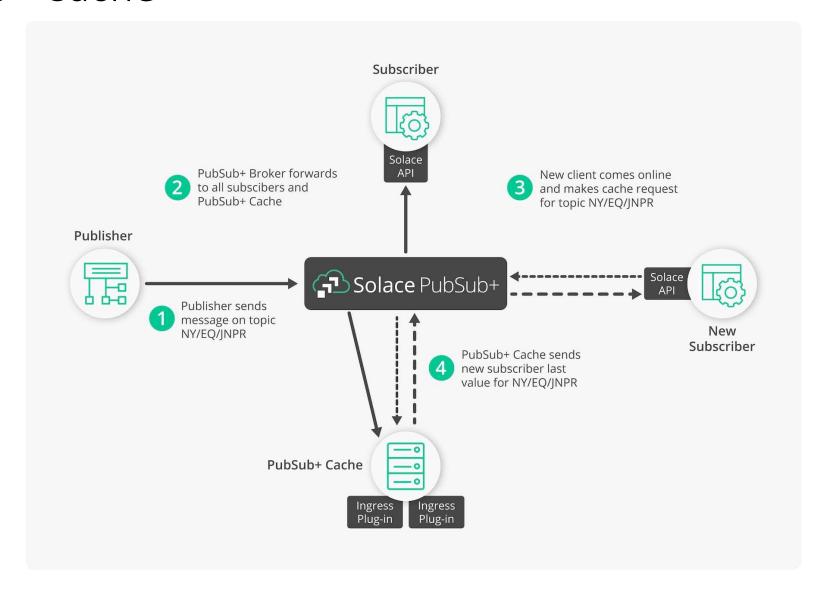
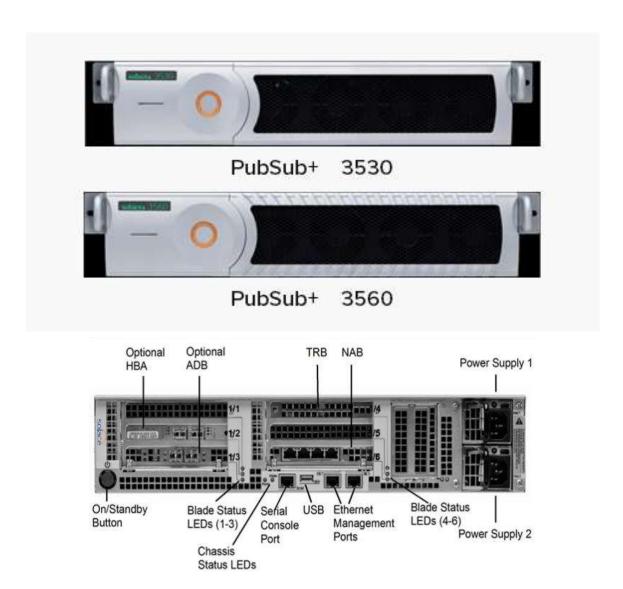
Solace



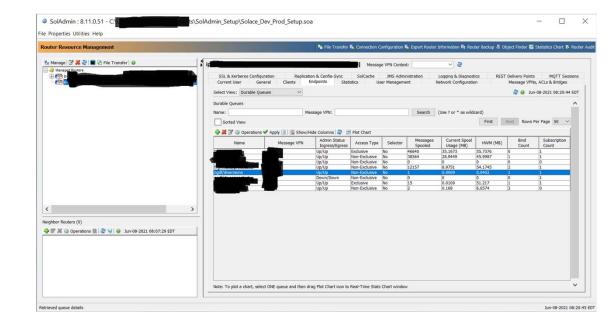
PubSub+ Cache





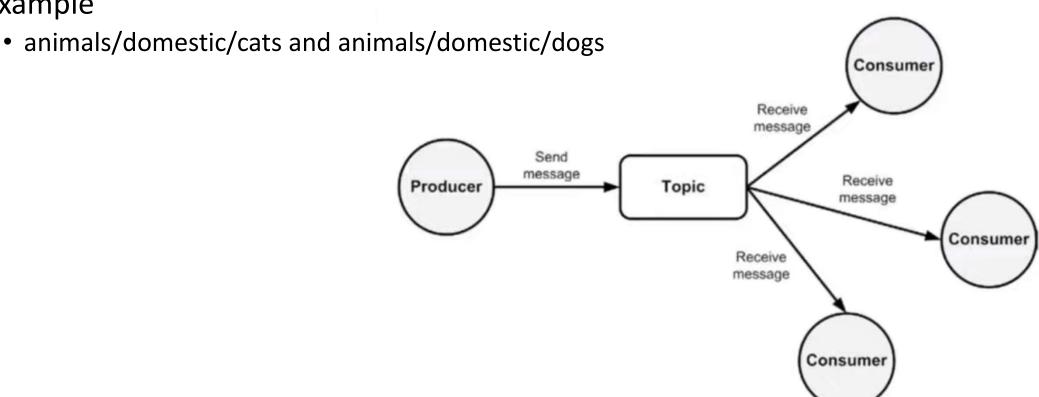
SolAdmin

- Management application for Solace PubSub+ event brokers
- Features
 - Setting Up the SolAdmin Management Domain
 - Configuring User Authentication and Authorization
 - Performing Common Event Broker Configuration Tasks
 - Configuring Message VPNs
 - Configuring Message VPN Bridges
 - Configuring ACL Profiles
 - Configuring Clients
 - Working with Endpoints
 - Configuring JMS Objects
 - Configuring Event Broker Redundancy
 - Configuring Site Replication
 - Configuring PubSub+ Cache
 - Monitoring Event Brokers



Understanding Topics

- Are a means of classifying the information contained in the event message
- Topics have the format a/b/c/.../n, where a, b, c and so on to n are identifiers
- Example



Topic Subscription

- animals/*/cats matches the topics
 - animals/domestic/cats and
 - animals/wild/cats
- The > character
 - animals/domestic/> doesn't match the topic
 - animals/domestic
 - but it does match
 - animals/domestic/cats
 - animals/domestic/dogs
 - animals/domestic/dogs/beagles/long-eared

Topics in Solace

- Hierarchical structure allows for levels, delimited by "/" forward slash
- A topic is more than just a flat label, or a destination
- A topic typically describes the contents of the message data
 - Recall: topics are used by the broker to route and filter the messages
- Example Solace topics:
 - #1) Foreign Exchange trading platform

```
[app]/[venue]/[feed]/[type]/[QoS]/[cur]/[cur2]
level 1    level 2    level 3    level 4    level 5    level 6    level 7

fxstream/ny4/feed02/spot/realtime/EUR/USD
```

Topics in Solace

```
Example Solace topics:
#2) Next-generation Payments platform
[app]/[type]/[bank_id]/[card_num]/[store_id]
level 1 level 2 level 3 level 4 level 5
quikpay/debit/0018/4817382639594164/01049
```

```
• #3) IoT Connected Vehicles architecture

[app]/[type]/[bus_num]/[route]/[lat]/[lon]

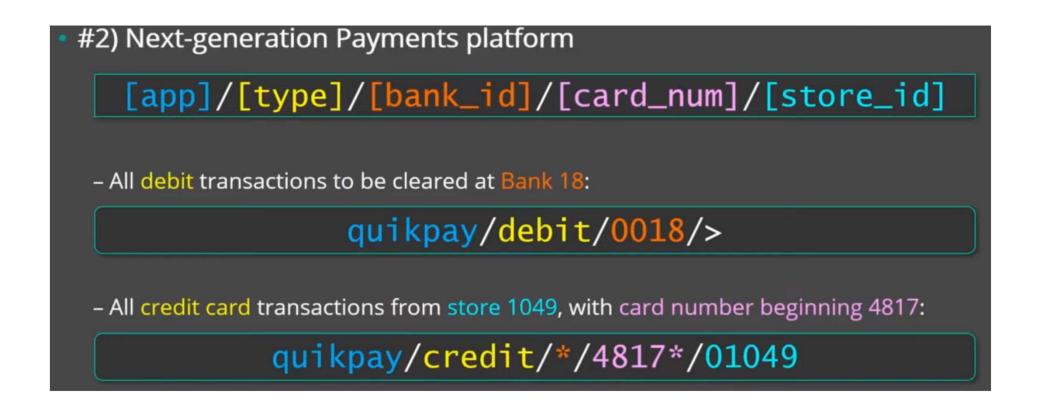
level 1 level 2 level 3 level 4 level 5 level 6

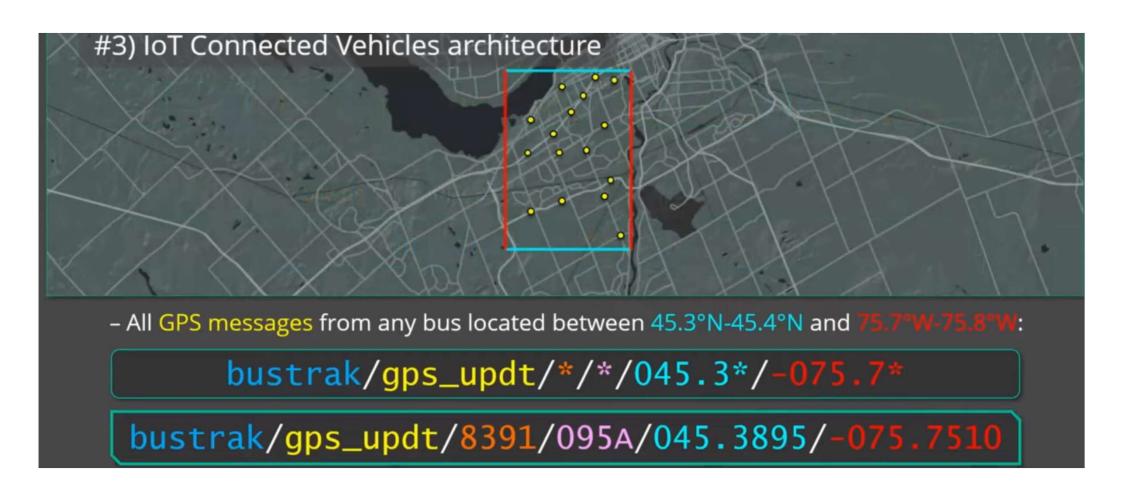
bustrak/gps_updt/8391/095A/045.3895/-075.7510
```

Subscriptions and Wildcards in Solace

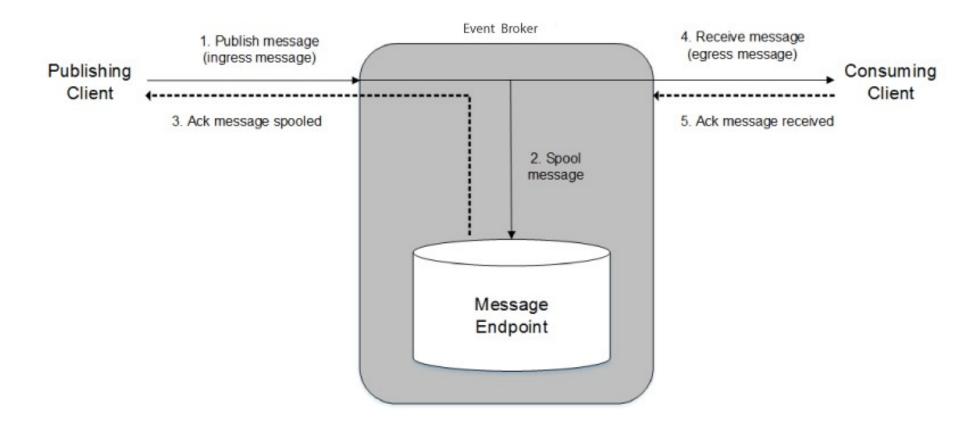
- The Solace event broker maintains a list of all subscriptions
 - When a message is received, it performs matching on the topic in real-time
 - Delivers the message to client applications and/or persistent endpoints
- So how to match on an infinite number of topics? Subscription wildcards!
 - Wildcards enable advanced routing and filtering of messages
 - A consumer-side concept, allows matching a range of topics
- Two different wildcard types:
 - Single-level ★ this can be used with a prefix
 - Multi-level >
 - Corresponds to MOTT wildcards: "+" and "#"







Guaranteed Messaging



Thanks