

Topic Structures and Wildcards



Solace Topic Structure

system / status / host1 / statistics

level 1

level 2

level 3

level 4



Solace Topic Structure – Maximum Length

system/status/host1/statistics

Max length = 250 bytes





Solace Topic Structure – Case Sensitivity

system/status/host1/statistics

≠

System/Status/Host1/Statistics








Solace Wildcards

```
system/status/*statistics
```

```
system/status/host1/>
```






Solace Wildcards: “*”

Publish { system/status/host1/statistics

Subscribe {
system/status/*/statistics 
system/status/host*/statistics 
system/status*/host1/* 
system/status/host1/statistics/* 
system/status/*1/statistics 

Solace Wildcards: ">"

Publish { system/status/host1/statistics

Subscribe {
system/status/host1/> 
system/status/> 
system/status/host1/statistics/> 
system/status/>/statistics 
system/status/host1/s> 

Solace Topic Structure - Matching

Producer sends messages to topic...

`system/status/host1/statistics`

Which topic subscriptions match these messages?

1. `*/host1/statistics`



2. `*/status/host1/>`



3. `system/Status/>`



4. `sys*/status/*/statistics`



Solace Topic Structure - Matching

Producer sends messages to topic...

addr/req/jon/billing/get

Which topic subscriptions match these messages?

1. addr/req/*/billing/*



2. addr/req/j*/>



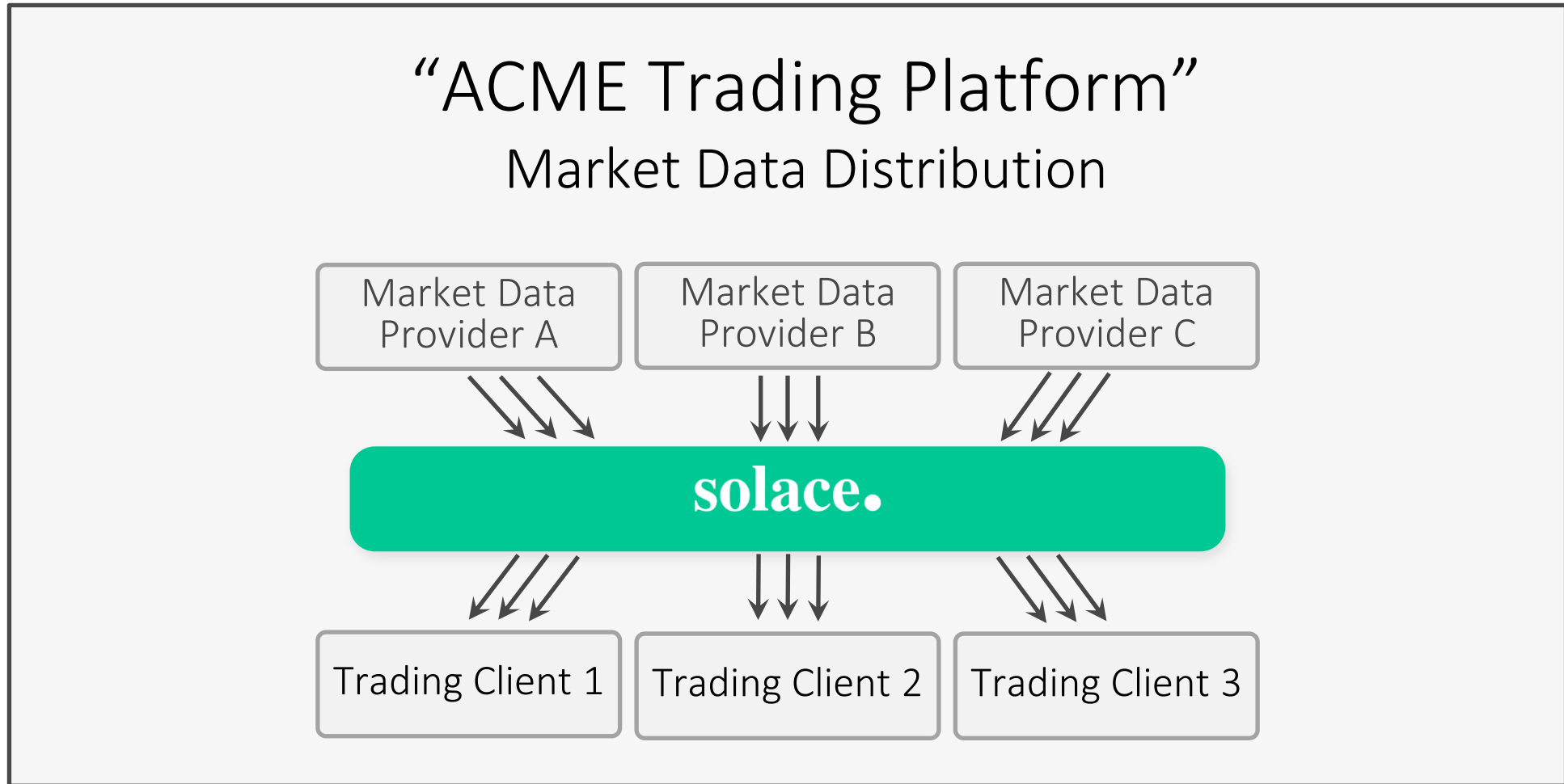
3. addr/req/j*/*/get/>



4. addr/req/jon/*



Example – ACME Trading Platform



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“ACME Trading Platform”

Market Data Distribution

atp/<provider>/<QoS>/EQ/<product>

atp/<provider>/<QoS>/FX/<currency1>/<currency2>/<spot or forward>

atp/MDP_A/RT/EQ/ACME.A

atp/MDP_B/RT/FX/USD/CAD/S

atp/MDP_A/D20/EQ/ACME.B

atp/MDP_C/D20/FX/USD/CAD/F



Topic Design Guidelines

- **Use consistent case for characters within a topic name or level**
 - `atp/req/Usd/Cad/Spot/5mm`
 - `atp/req/USD/CAD/SPOT/5MM`
- **Use abbreviations for elements names within a topic where possible**
 - `acmetradingplatform/northamer/east/order/new`
 - `atp/na/e/order/new`
- **Minimize or avoid the use of special symbols in the topic name**
 - `atp/MDP~A/RT/EQ+/ACME (A)`
 - `atp/MDP_A/RT/EQ_PLUS/ACME_A`



Topic Design Guidelines

- The length of a topic name should be considered if the size of messages is expected to be relatively small
- The number of possible unique entries at a given hierarchy level should decrease when approaching the top (root) of the hierarchy
- Escape any characters which are reserved, such as the * or > wildcard characters
 - Suggested character: ^