

Entity Description

**Region** - Geographical (Financial) Grouping eg. EMEA / APAC / AMERS

**Venue** - Exchange / Market Data eg. CME, NYSE, LSE

**Venue Profile/Capability** - Configuration for a particular venue. This can include environments, multi-cast policy, recovery policy etc.

**Venue Migration Template** - Template/Blueprint for how to connect to a particular Venue. It will consist of the difference connections required for a venue eg..a connection for MarketData, Recovery, Reference data etc.  
**Note:** There can only be 1 active Venue Migration Template. The model allows for archiving and identifying historical VenueMigrationTemplates

**Connection Pattern** - Identifies a specific flow eg: Market Data, Recovery etc. Each Connection pattern consists of Network specific patterns (Layer 1->4) and Application based patterns (Layer 5-> 7). The ConnectionPattern acts as a bridge between the various Layer 4 and Layer 7 patterns. Each VenueMigrationTemplate will consist of several ConnectionPatterns.

**Layer 1-4 Pattern**- Composite Network-Specific patterns that describes transport capabilities.**-Expand on this**

**Layer 5-7 Pattern**- Composite Application-Specific patterns that describes protocols, dataformats etc capabilities.**-Expand on this**

**Network Protocol** - Different procotols (L1-L4) transport. TCP/UDP, Dual, IP, ports, etc

**Network Profile** - Specific configuration, congestion handling???

**Security Profile** - Specific/Standardised security, TLS, Firewall policy, certificates etc.  
*Is there a different/combination security profile for the AppLayer ?*

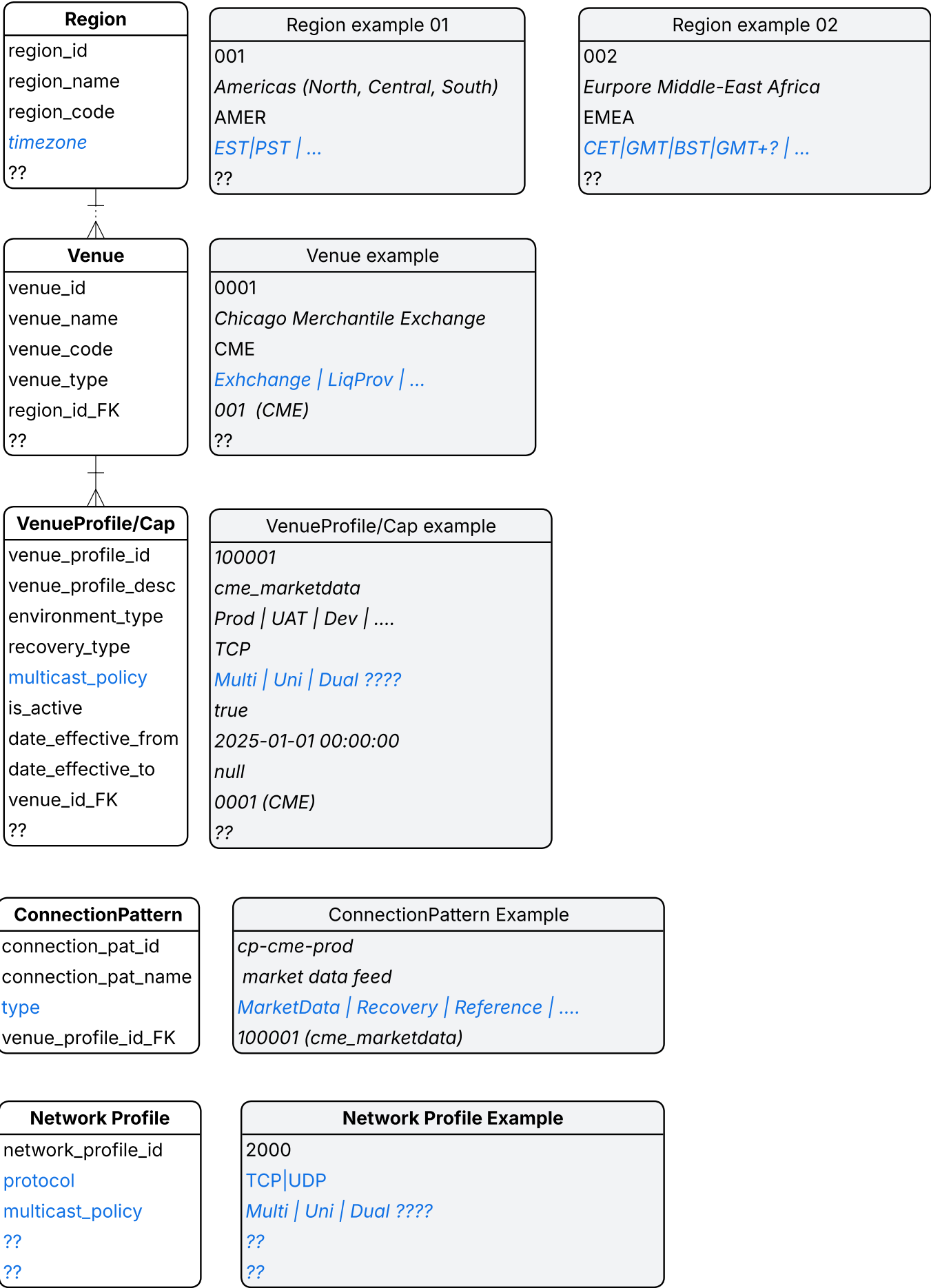
**Credential Profile** - Application Level. Encrytion keys, secrets, rotation policy etc..

**Connection Instance** - Runtime instance of a connection (to a venue). connection pattern eg. market feed connection (UDP), recovery connection (TCP) etc. Populated with actual values, state (status), observability (hooks).

Integration (AMDB|IMDB) -??

Entity Attributes / Examples (wip)

Note: attributes in **Blue** could/should be a seperate entity



Oliver: Example data from Feedcorrect:

Feed/Channel

- feedId [1201]
- feedName [ASX Trade open interface]
- channelId [3702]
- channelName [ASX Trade Omnet API]
- protocol [TCP, TCP-SSL, UDP etc]
- cheInterface [A, B]
- exchangeIPv4 [172.30.67.8/29]
- exchangePort [5261]
- commsDesignators [circuit/x-connect details e.g SNA-REUT-V1]
- sourceEnvironment [Prod/Dev/etc]
- lsegStatus [Live/decomm ]
- ranking [Premium, A, B, C ] unclear if this is whole feed or channel
- recoveryDetails [Gap Recovery for Order message trigger by modify the OMC.ini file with wanted message and sequences, the file will be triggered once a minute.]
- drType [Hot, cold DR]
- drDescription [Text description of DR capabilities/reqs]
- description [Australian Stock Exchange - File Maintenance, KRX - KOSDAQ150 Index Futures, ICE EU (Chicago) + DTIG - Oil, Non-Oil, Agricultural Derivatives]

Venue

- venueId [928]
- venueName [ASX - Australian securities exchange]
- parentCompany [Australian Securities Exchange Limited]

**Processor** - this data matters, but should we model it here?

- processorId [53]
- processorName [ASX]
- processorType [CHE]
- processorStatus [Production]
- headend [SY4P-DDNCHE02A, SY3P-DDNCHE02A, SY3P-DDNCHE02B, SY4P-DDNCHE02B]