

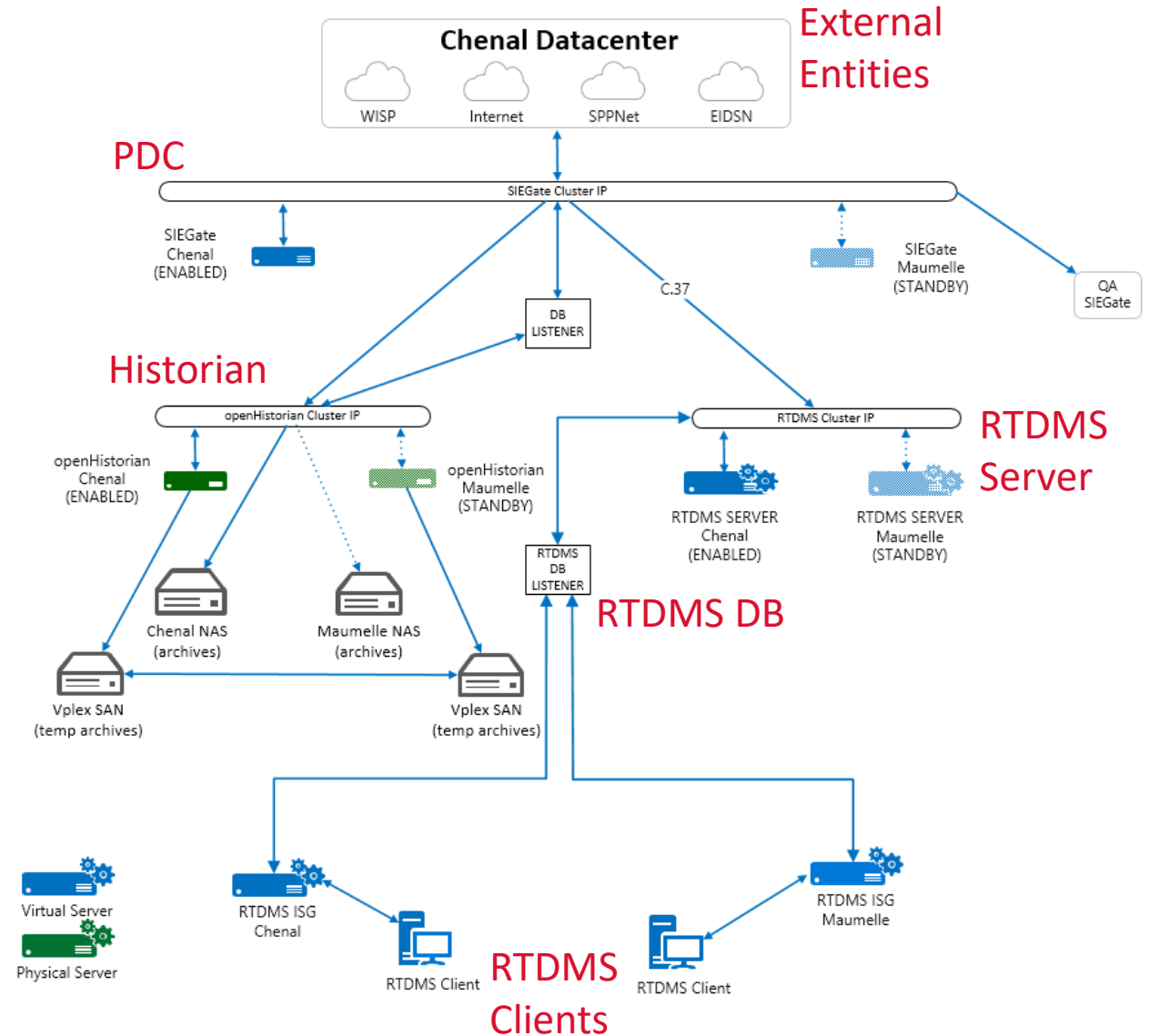
# STTP at SPP

Presenter: Mike Nugent

# SPP's PMU System

## PMU data stats

- Western Interconnect
  - ~60 devices using C37.118
- Eastern Interconnect
  - 80-90 devices using C37.118
  - ~600 devices using STTP



# Key Benefits of STTP for External Connections

- Built-in security allows data transfer over non-secure networks without VPN
- Publisher/Subscriber capability reduces bandwidth and data storage requirements
  - SPP can subscribe to positive-sequence data and not transmit 3-phase
- Subscription capability simplifies modeling/maintenance effort for data providing TO's
  - Data providers can grant access to all signals. SPP can choose which signals and devices to get data from
- Metadata exchange improves modeling accuracy. Updates are transmitted automatically

# Key Benefits of STTP for Internal Connections

- Metadata automatically refreshes across environments
- Connections can be reverse initiated from a more secure system to a less secure system, good for IT security
- Metadata is stored and can be updated in an easy to query database
- Less administrative overhead to set up data flows between systems