STTP at SPP

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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