# **CWB and AQMS Integration**

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## EdgeCWB (Continuous Wave Buffer)

Complete data archival and distribution system developed by Dave Ketchum.

SCSN's continuous acquisition and archival system.

- Collects data from multicast.
- Long-term archival.
- Distributes data through TriNet waveserver interface and through query server interface.
- Holdings database.











#### **CWB** Interfaces

TriNet Waveserver:

- Behaves identically to the AQMS waveserver program -- no code changes to client software.
- Used by wavearchiver to acquire triggered waveforms.
- Used by analysts in Jiggle.
- Edge nodes serve out memory wavepool.



#### **CWB** Interfaces

Query server:

- Serves out data files in response to queries over TCP.
- Used by CWBQuery.jar, which is included with EdgeCWB.
- Used by STP.
  - Library gets data from the query server.
  - Code change to STP server, not client.



#### Database

MySQL database:

- Stores holdings, gaps, and EdgeCWB node configurations.
- Used by gap fetchers.
- Used by StationUI and tools that check latency and completeness.



#### **Ongoing and Future Development**

- EdgeCWB installation in EC2.
- Fetching data from Q330's and Balers in the field to fill gaps.
- Improving compression of data files.



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# **Questions?**

