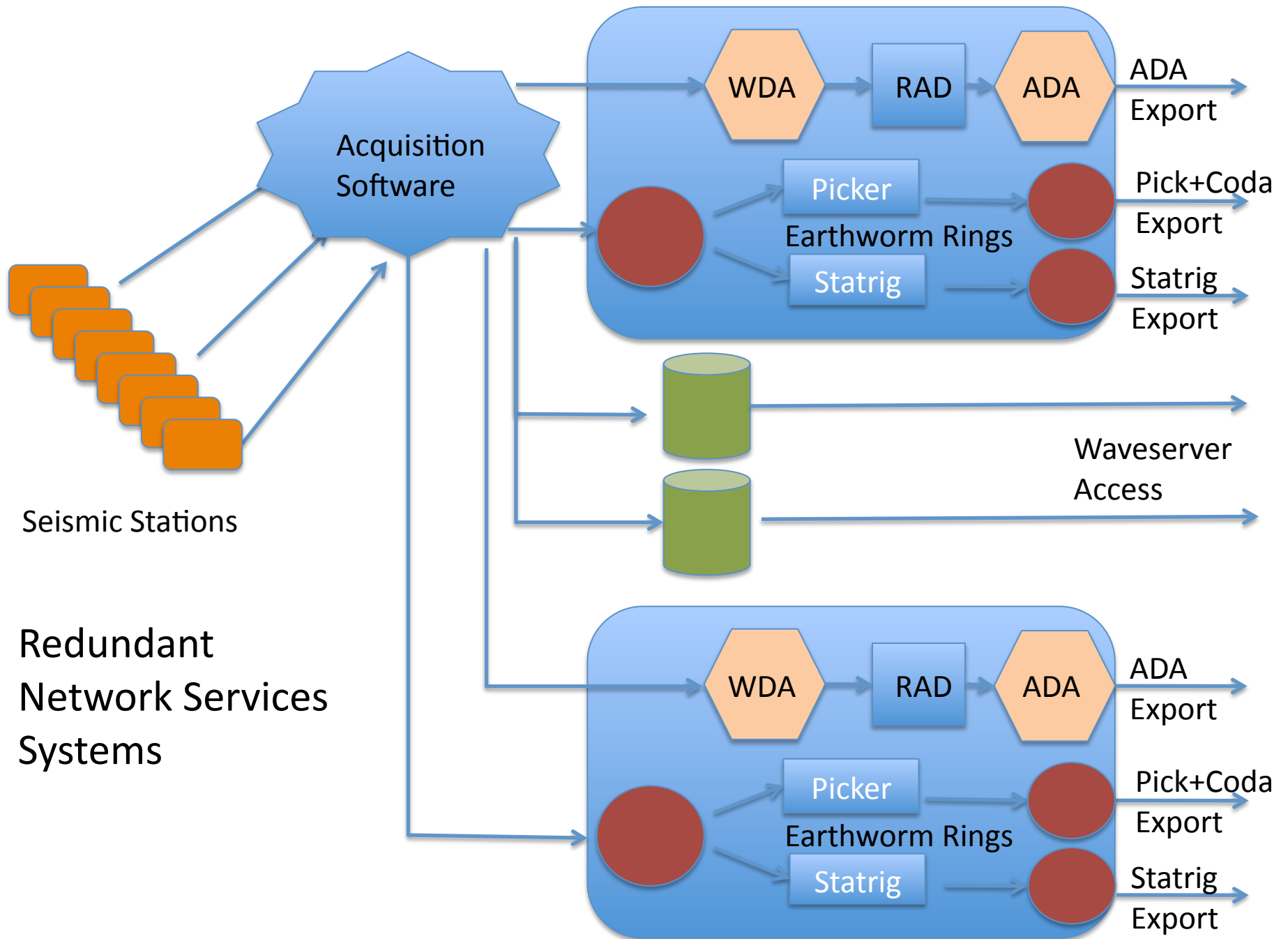


CISN-Wide Operations

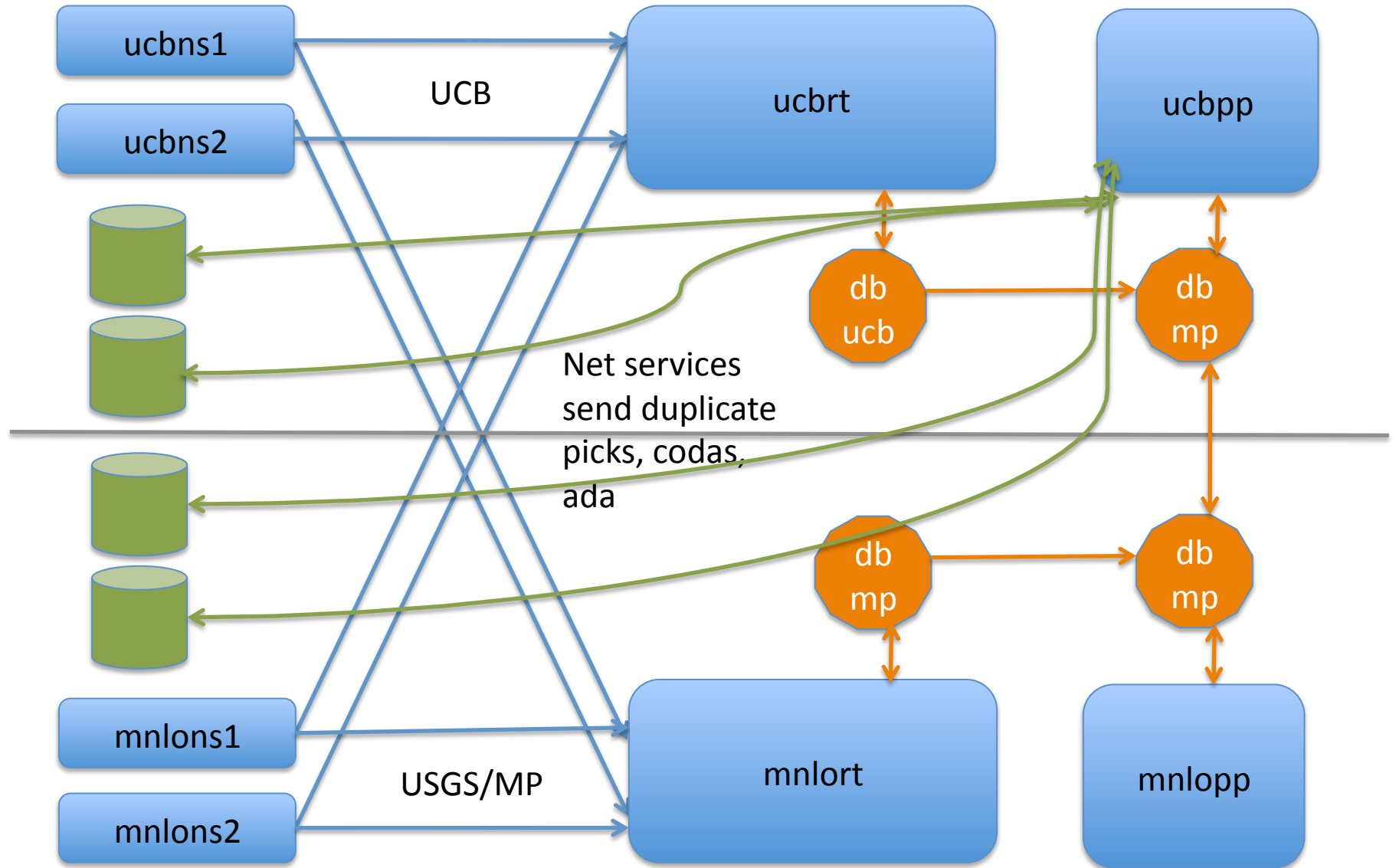
- 24 broadband+sm stations throughout CA send continuous data directly to both NCEMC and SCEMC via frame relay.
- Waveform data exchange between NCEMC and SCEMC centers for stations near borders, and waveform data exchange with adjacent ANSS regional centers.
- Phase data exchanged between NCEMC and SCEMC.
- Access to remote waveservers for event waveform archiving.

CISN NCEMC Operations

- Use AQMS to implement a single distributed Earthquake Management Center (EMC) at 2 sites: UC Berkeley and USGS/MP.
 - Separate station telemetry and waveform acquisition system (and software).
 - Dedicated T1 circuits with Internet failover between EMC components at UCB and MP, but with insufficient bandwidth for FULL waveform exchange.
 - Full real-time system and RT database at each site.
 - Developed and utilize “Network Services” concept to provide distributed processing and redundancy.



Utilizing Redundant Network Services in a Distributed AQMS System



Filters on RT systems remove/overwrite duplicate data