

draft-ietf-avt-mwpp-midi-rtp-06.txt

☐ Since Atlanta:

- ▶ Normative: -06.txt.
- ▶ Guidelines: -01.txt and -02.txt.

☐ MMA/AMEI

- ▶ From wish list ... to requirements.
- ▶ -07.txt in progress.
- ▶ Today: a few interesting design issues.

☐ IEEE P1639

- ▶ Phil Kerr @ Sunnyvale Starbucks.
- ▶ Provide clear choices.

Timing: Precision Senders

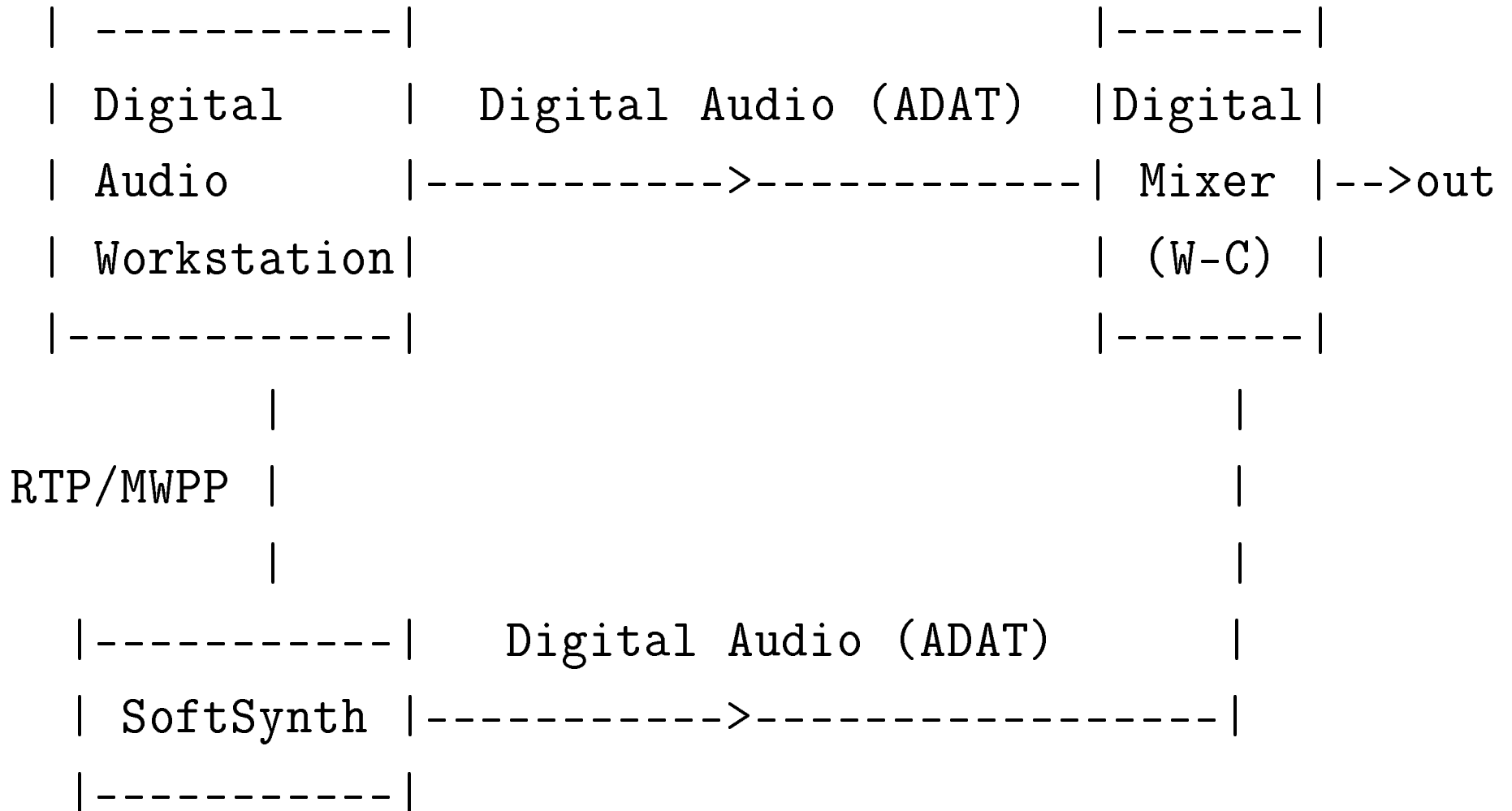
❑ MIDI 1.0 Cables (async serial)

- ▶ No timestamps → time-of-arrival.
- ▶ Request: pseudo-wire emulation.
- ▶ Use together with timestamps on LANs.

❑ Design Elements

- ▶ `fmtp` parameter: precision sender.
- ▶ Last command → sending time.
- ▶ Last command may be null.
- ▶ Normal `ptime` and `maxptime`.

Timing: Multi-format Sync



Multi-format Sync Options

- ❑ Specify rendered output time.
 - ▶ NTP units, relative to RTCP NTP.
 - ▶ Assumes accurate NTP sync.
 - ▶ “Calibration-free”

- ❑ Specify packet buffer latency.
 - ▶ Nominal value, low variance.
 - ▶ Manual calibration.

- ❑ “Do not do this.”