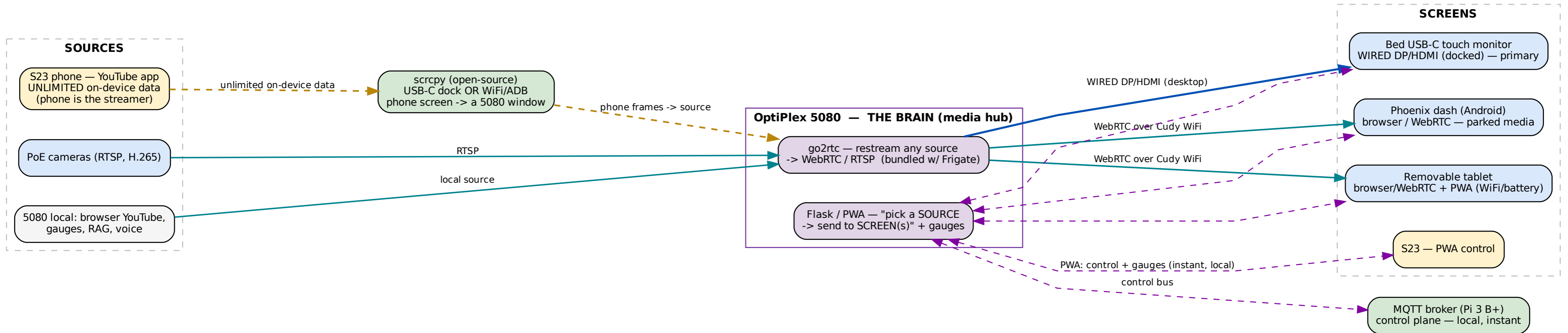


2014 RAM 1500 Carputer — DISPLAYS & MEDIA ROUTING · OptiPlex 5080 as the media hub (brain in control)
 The 5080 ingests the S23 once (scrcpy, on the phone's UNLIMITED on-device data) and fans it out to many screens via go2rtc (the restreamer bundled with Frigate).
 CONTROL plane (MQTT/PWA) is separate, local, and instant. MEDIA plane (video) takes the restream path = slight lag, fine for parked viewing.
 LEGEND: gold dashed = phone unlimited data · teal = video (WebRTC/RTSP) · blue = wired display (DP/HDMI) · purple dashed = control plane (MQTT/PWA)



WHY THIS SHAPE

- Ingest the phone ONCE (scrcpy) -> the 5080 becomes the distribution point for the phone's UNLIMITED pipe.
- go2rtc fans ONE source out to MANY screens (WebRTC, sub-second).
- 5080 Micro wired video: 1x DP + 1x HDMI (+1 optional flex port) = ~2-3 WIRED heads; everything else is NETWORKED (browser).

CAVEATS

- Latency stacks per hop: scrcpy + re-encode + WebRTC ~ 0.3-1.5s -> great for watching parked; NOT for twitch-interactive.
- Re-encode = CPU + watts (QuickSync helps); a parked-movie load, mind deep-winter battery (sec 5.2).
- Use the RIGHT plane: control = direct PWA (instant) · media = go2rtc restream (slight lag).

DATA SPLIT (by who's present)

- phone tether/hotspot = CAPPED (~5GB) -> avoid for video.
- phone ON-DEVICE = unlimited -> reached via scrcpy ingest.
- Cudy/Keepgo SIM = always-on automation (Fireworks, Tailscale, alerts) for when the phone isn't there.