

Live Cast Control Plane (P0-P2 kickoff)

From DRs/20260620_live_cast_control_plane.md

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Source: 20260620_live_cast_control_plane.md — section links work in PDF viewers that support internal anchors.

Scope implemented

- New BE API POST/GET .../api/live_cast.php:
- create_intent, heartbeat (60s KA), join_event
- GET action=active|analytics|session|list
- Public (no login): session, join_event, education create_intent/heartbeat
- New BE repository LiveCastRepository with auto-schema:
- live_cast_sessions, live_cast_join_events
- Expiry rule: sessions without heartbeat for 60s become expired.
- Short links + QR per session (join + direct) via internal short-links service.
- Analytics payload includes live_cast section; shell label **Analytics**.
- Web pages:
- /live/join — viewer entry, join_event tracking, player placeholder
- /live/education — 5-minute browser screen-share demo
- ?view=live_sessions — session tree (read-only, auto-refresh)
- Cookie consent banner (cookie_consent.js) gates GA4 until user accepts.
- Mobile:
- LiveCastControlPlane — start/heartbeat/stop from sender/receiver services
- LiveCastPeerTracker — polls active sessions; green border on discovery list

Non-goals (remaining)

- WebRTC/SFU media plane and real HTML5 playback.
- Push notification delivery (Web Push / FCM).
- Gravatar / refined avatar chrome on web lists.
- Short-link click counter migration in url-shortener submodule.

Data model notes

live_cast_sessions stores owner/device/platform, state transitions, short URLs, codec/BW hints.

live_cast_join_events stores open/join/leave events with platform/channel/direct flags and basic anon dimensions.

Follow-up phases

1. Integrate SFU/web viewer when media-plane branch is ready.
2. Browser/mobile notification fan-out on cast start.
3. Gravatar + green-border on web peer lists.
4. Shortener click stats joined into live session analytics.