

# WHIP integration checklist

The four HTTP verbs of RFC 9725, the auth and codec essentials, and the 2026 platform list. One page, print-ready.

## POST — begin a session

RFC 9725 §4.2

To: WHIP endpoint URL  
 Headers: Content-Type: application/sdp · Authorization: Bearer ...  
 Body: SDP offer (sendonly · BUNDLE · single MediaStream)  
 OK response: 201 Created · Location: /sessions/{id} · ETag: "..."  
 Body of response: SDP answer (recvonly, full server ICE candidates)

## PATCH — update ICE state

RFC 9725 §4.3 (trickle ICE · ICE restart)

To: WHIP session URL (from Location)  
 Headers: Content-Type: application/trickle-ice-sdpfrag · If-Match: "... " or \*  
 Body: SDP fragment with new ICE candidates (and ice-ufrag/pwd if restart)  
 Trickle OK: 204 No Content (no body, no new ETag)  
 Restart OK: 200 OK + SDP fragment + new ETag  
 Errors: 412 stale ETag · 428 missing If-Match · 422 op not supported

## DELETE — end the session

RFC 9725 §4.2

To: WHIP session URL (from Location)  
 Headers: Authorization: Bearer ...  
 Body: none  
 OK response: 200 OK · server tears down ICE + DTLS + media  
 If skipped: server detects loss via ICE/keepalive timers (a few seconds).

## OPTIONS — capability discovery

RFC 9725 §4.1 + CORS preflight

To: WHIP endpoint URL  
 OK response: 200 OK · Accept-Post: application/sdp · CORS headers  
 Optional benefit: early server ICE candidates → ~1 RTT saved  
 Used by: OBS 30.2+ · Cloudflare Stream · most modern WHIP clients

## 2026 platform support snapshot

Platform	WHIP	RTMPS	SRT	Notes
Cloudflare Stream	Yes (GA)	Yes	Yes	Trickle ICE + ICE restart
AWS IVS Real-Time	Yes (GA)	—	—	WebRTC-first product line
Dolby Millicast	Yes (GA)	Yes	Yes	Authors' first commercial home
Mux Live	Yes (GA)	Yes	Yes	Three-protocol single endpoint
AWS Elemental MediaLive	Yes (GA)	Yes	Yes	WHIP added 2025
Ant Media v2.10+	Yes (GA)	Yes	Yes	Self-hosted or managed
Wowza Streaming Engine	Yes	Yes	Yes	Self-hosted; WHIP since 2023
YouTube / Twitch / Kick / TikTok	No	Yes	—	Consumer social = RTMPS-only

### Encoder configuration crib (OBS 30+)

Service: WHIP · Server: https://.../whip-endpoint · Bearer token: from platform dashboard.

Codec: H.264 baseline or main, CBR, target bitrate set by platform; keyframe interval 2 s; B-frames disabled (WebRTC default profile does not negotiate them).

Audio: Opus 48 kHz, 96-128 kbps stereo. AAC if the platform negotiates it; some do not.

Network: wired Ethernet or healthy 5G/Wi-Fi; <1% loss. Lousy paths → use SRT instead.

### Pre-flight checklist

- Server speaks RFC 9725 (POST → 201 + Location + ETag).
- HTTPS enforced; never plaintext HTTP in production.
- Bearer token in Authorization header, not URL query string.
- TURN server configured (or platform-hosted TURN reachable).
- Codec list on client matches server (H.264 baseline is the safe lowest common).
- Trickle ICE supported on both sides (otherwise disable on client).
- Token rotated periodically; scoped to the minimum required permissions.