LTI 1.3 Integration Readiness Checklist

Run this before you ship an LTI integration. The companion article explains every line.

A. Version, roles, and the secure launch

- [ ] Target LTI 1.3 + LTI Advantage; treat LTI 1.1 (OAuth 1.0) as legacy only
- [ ] Roles are clear: the LMS is the Platform, your app is the Tool
- [ ] Launch uses third-party-initiated OpenID Connect (iss, login_hint)
- [ ] Platform returns a JWT id_token; Tool verifies the signature, nonce, aud, and expiry

B. Keys and the LTI Advantage services

- [ ] Public/private key handling and JWKS hosting are set up and rotatable
- [ ] Deep Linking: teacher can select specific content from your tool
- [ ] NRPS: tool can securely read the course roster and roles
- [ ] AGS: tool writes scores back via line item, score, and result
- [ ] Each service degrades gracefully when a Platform does not grant it

C. Conformance and going live

- [ ] Tool is tested against a real LMS (Canvas, Moodle, or Blackboard), not just a sandbox
- [ ] 1EdTech LTI 1.3 certification is planned or done; listing is a sales asset
- [ ] One code path serves every conformant LMS; new ones are config, not code
- [ ] Errors are handled: invalid signature, missing scope, expired token

Before your first NRPS or AGS call: privacy

NRPS hands you real student identities and AGS handles their grades - that is personal data under GDPR, under FERPA for US student records, and under 152-FZ for a Russian audience. Decide what you store, why, and for how long first. This is engineering guidance, not legal advice.



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This checklist gets an LTI 1.3 tool through launch, keys, Advantage services and certification. We wrote a seven-volume handbook on the video stack such a tool streams into the LMS: start with Volume 3 for ABR, players and DRM, then Volume 1 for encoding and Volume 4 for audio and captions.

WHAT YOU WILL FIND INSIDE

- ABR ladders and players that hold up inside an LMS iframe
- Encoding settings for lecture and screen content
- DRM for licensed course video
- Captions and accessibility for learning video

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Vol. 1 · Video Encoding — pixels and color to H.264, HEVC, AV1, quality metrics and AI
Vol. 2 · Video Streaming I — network transport, contribution and ingest, HLS, MPEG-DASH, CMAF
Vol. 3 · Video Streaming II — ABR, CDNs, players, WebRTC, DRM and the economics of delivery
Vol. 4 · Audio for Video I — PCM, codecs, loudness, accessibility, real-time voice processing
Vol. 5 · Audio for Video II — jitter buffers, lip sync, Atmos, quality metrics, neural codecs
Vol. 6 · AI for Video I — models and inference, computer vision, speech, search, generative video
Vol. 7 · AI for Video II — real-time pipelines, agents, serving, cost, compliance, verticals

Shipping an LTI 1.3 video tool to Canvas, Moodle and Blackboard?

We will review your launch, JWKS and AGS flow against a real LMS and send a list of gaps to fix before certification. 250+ video products shipped since 2005.

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