# Learning-Video Platform Architecture Blueprint

The nine layers, the standard each speaks, and the failure mode to watch. Decide build vs buy layer by layer.

| Layer | Does | Standard | Failure to watch |
|---|---|---|---|
| **1 Authoring** | Make the course | Output format (SCORM/native) | Format chosen before data needs |
| **2 Content store** | Hold the files | LCMS / object store | One master, no renditions |
| **3 Delivery** | Video to the screen | HLS · DASH · WebRTC · CDN | Live and VOD as one pipeline |
| **4 Interactive player** | Watching becomes learning | (emits the events) | Plays but emits no events |
| **5 Tracking** | Events become records | SCORM · xAPI · cmi5 | Rich video on plain SCORM |
| **6 LMS / LRS** | System of record | LMS · LRS (xAPI) | Stock LMS, no video analytics |
| **7 Assessment** | Prove it happened | Open Badges · W3C VC | Editable-PDF credentials |
| **8 Analytics** | Records become insight | (your definitions) | Watched = completed = learned |
| **9 Reporting** | Close the loop | LTI 1.3 Advantage | LTI treated as a password login |

### Wraps every layer:

Standards & accessibility: SCORM · xAPI · cmi5 · LTI · Open Badges 3.0 · W3C VC · WCAG 2.1 AA (1.2.2 / 1.2.4 / 1.2.5).

### Rule of thumb

Commodities (delivery, storage) lean BUY. Differentiators (player, analytics) lean BUILD. Standards surfaces (LTI, SCORM, cmi5) are CONFORM, not invent. Match tracking to data before building the player.

Companion to: 'The Anatomy of a Learning-Video Platform, End to End'
www.forasoft.com/learn/elearning-video/articles-elearning/anatomy-of-a-learning-video-platform




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This blueprint lists the nine layers of a learning-video platform with the standard and failure mode for each. Our seven-volume handbook covers the video layers in depth; start with Volume 3 for delivery, CDNs and players, then Volume 2 for HLS and DASH packaging, and Volume 1 for encoding.

### WHAT YOU WILL FIND INSIDE

- CDN delivery and player architecture (Vol. 3)
- Encoding ladders and storage (Vol. 1)
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## Deciding which layers of your learning platform to build and which to buy?

We will review your nine layers, mark build versus buy for each and give you an architecture with costs. 250+ video products shipped since 2005.

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