

ENGINEERING ASSURANCE FOR AEROSPACE & DEFENCE

Requirements, drawings, BOMs and configurations, **still aligned.**

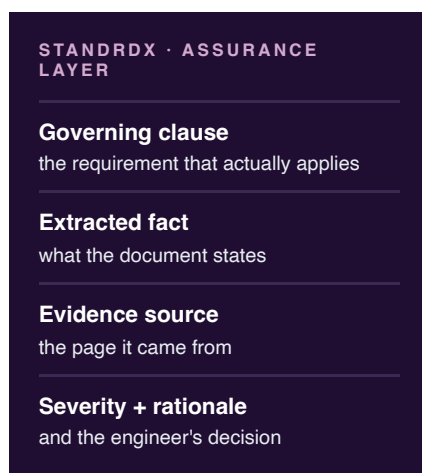
standrdX is the engineering assurance platform that validates engineering handoffs against the requirements, standards, specifications, drawings and data that govern them.

The handoff being guarded: governing requirement → design, BOM and configuration.

01 WHERE STANDRDX FITS

WHAT YOU RECEIVE

- Requirements, specifications and standards
- Design drawings and analysis
- BOMs and supplier deliverables



WHAT YOU RELEASE

- Verified design deliverables
- Cited findings register
- Traceable verification record

02 THE HANDOFF BEING GUARDED

One baseline, four stages, four chances to diverge.

The requirement rarely changes. What changes is which document people are working from. Each stage verifies its own output against its own baseline, and nothing verifies that the baselines still match each other.



Configuration drift is a documentation failure before it is an engineering one.

By the time a mismatch reaches verification it has passed through several baselines, and establishing which one was correct becomes its own programme of work. The requirement was never in dispute. The question is which document carried it faithfully.

Requirements get lost between teams, and the loss is invisible until verification.

Nothing is wrong on any single drawing, which is exactly why manual review misses it.

01

Requirements flow into deliverables by hand

A requirement is read, interpreted and carried into a drawing or a parts list by someone who was not the author. Missed obligations and transcription errors enter at that step.

03

Configuration changes propagate unevenly

A change is applied in one baseline and not in another. Both documents remain internally correct and the programme carries a mismatch nobody has flagged.

05

Supplier deliverables arrive against their own conventions

Submissions built to a supplier's format have to be checked clause by clause against the programme specification, and consistency varies by reviewer.

02

BOMs are not systematically validated against the governing requirement

The parts list is assembled from the design. Whether it still satisfies the requirement the design was meant to meet is a separate check, and it is usually a manual one.

04

The governing picture is spread across documents

Performance obligations sit in one document, material requirements in a referenced standard, a concession in an addendum. Assembling the full obligation means opening several.

06

Verification evidence is assembled after the fact

When qualification requires the basis of a decision, reconstructing the trail from deliverable to clause to sign-off is a manual exercise.

04 PRECEDENCE

Governing requirement, not similar text.

A programme specification, a referenced standard and a contractual addendum can all speak to the same parameter and say different things. standrdX resolves which one governs, then validates against that. Get the precedence wrong and the verification is wrong, however thorough it looks.

standrdX applies precedence across the governing documents to determine which requirement governs.

Code → Owner Standard → Project Specification → Addendum → **Approved Deviation**

Applicable standards vary by programme and by contract. standrdX validates against the library you load: workspace standards apply across programmes, and project addenda add programme-specific controls and concessions.

05 HOW IT WORKS

01

Read the engineering record

Requirements, specifications, standards, drawings, BOM documentation and supplier deliverables, from the library you load.

02

Apply precedence

Determine which requirement governs when the governing documents disagree, and carry that decision forward.

03

Validate the handoff

Check each deliverable against the requirement that actually applies, at programme scale and at every revision.

04

Engineer decides

Every finding carries its clause and evidence. The engineer reviews, decides and approves. The decision is recorded.

Supplier deliverable review	Supplier datasheets and submissions compared against the programme specification and the standards it invokes, with the governing clause, the extracted fact and the evidence source on every finding.
Drawing review	Design drawings and layouts ingested as project documents and included in a compliance run. Findings are returned clause by clause, with the source quote, a severity and a confidence score reported separately from the verdict.
Revision comparison	2D drawing revision comparison identifies what changed between issues, so review effort goes to the change rather than to re-reading the whole deliverable at each baseline.
Cross-document validation	Conflicts identified across connected engineering documents, from specification to drawing to parts list, so a discrepancy can be traced to the stage that introduced it. Scope and document set are established in a bounded engagement.

HIGH		Parts list PL-7781 · Rev 04	NON-CONFORMANT
Specified component does not meet the material obligation carried by the governing requirement.			
GOVERNING CLAUSE	Programme specification, materials section, invoking the applicable standard Contract addendum C-19 takes precedence		
EXTRACTED FACT	Component material and specification as listed · requirement as stated in the governing document		
EVIDENCE SOURCE	PL-7781 Rev 04, line item · programme specification, materials section		
SEVERITY RATIONALE	Governing requirement applies to a flight-critical assembly		
REVIEWER	Open for engineering decision: approve, reject, or override severity		
Illustrative. Severity, clause and evidence are carried on every finding; the engineer holds the decision.			

standrdX does the first pass. Your engineers make the call.

Speed without handing over accountability. Every decision is recorded, every approval traceable.

STANDRD X

Reads	Compares	Determines	Finds
Explains	Tracks	Prepares	

ENGINEER

Reviews	Decides	Approves	Escalates
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Human governance is the design, not a safeguard added afterwards.

Each finding carries the governing clause, the extracted fact and the evidence source, so it can be checked rather than taken on trust.

01

Requirements stay tied to deliverables

Each deliverable is checked against the clause it was meant to satisfy, not against a downstream summary of it.

03

Precedence applied consistently

Overlapping specifications, standards and addenda resolved by hierarchy rather than by reviewer.

05

Consistency across programmes

The same validation logic applies wherever the document was produced and whoever reviewed it.

02

Baselines are compared, not assumed

A mismatch between design, BOM and configuration is raised rather than discovered at verification.

04

Discrepancies traced to source

Findings identify the stage that introduced the issue, not simply that one exists.

06

Verification evidence by default

The record is a by-product of the review, not an exercise assembled before qualification.

10 WHY IT IS DIFFERENT

ADJACENT CATEGORY

Requirements management

Quality management systems

Extraction and reconciliation

Code-checking services

WHERE IT STOPS

Stores what was written. It does not verify that the requirement survived the translation.

Record the discrepancy after someone finds it. standrdX catches it at the handoff. The two are complementary.

Stops at the flagged conflict, without ruling on which requirement governs.

standrdX assures your requirement against the standards you set. Codes are one input among several.

11 WHAT THE PLATFORM PROVIDES

Platform. Multi-tenant SaaS with role-based access control, enterprise sign-in through Microsoft Entra ID, and full action logging. **Inputs.** PDF documents and engineering drawings, with 2D drawing revision comparison. **Outputs.** Findings and reports exported to PDF and Excel.

Governance. standrdX is evidence-backed and human-governed. It does not make engineering decisions or replace engineering judgment.

12 NEXT STEP

Prove it on your standards, your documents.

See standrdX run against your own programme specifications, drawings and supplier deliverables, and judge the findings the way your systems engineers would.

GET IN TOUCH

hello@standrdx.com

Email us to arrange a demo or talk to an expert.