



EVIDENCE-FIRST QA DOCUMENTATION FOR THE DOWNHOLE TOOL LIFECYCLE

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DIGITAL CHAIN OF CUSTODY (BLACK BOX)

- Consistent reporting across every location
- Faster refurbishment decisions

Who This Is For

QA/QC managers, shop supervisors, field engineers, and operations leaders at companies that **manufacture, rent, and service downhole drilling tools** - including drilling motors, rotary steerables, MWD tools, and BHA components - and need reliable lifecycle documentation from build through field deployment, return inspection, and refurbishment.

The Operational Reality

- **Multi-site coordination is fragile:** Tools cycle between manufacturing, field yards, and service shops across states and provinces. Inspection data lives in silos - paper forms, phone photos, email threads, spreadsheets.
- **Post-run inspections drive refurb decisions:** When a motor returns from a tough run, condition documentation determines repair, refurbish, or scrap - but that evidence is often incomplete or delayed.
- **API and OSHA compliance demands proof:** Auditors don't ask "did you inspect?" — they ask "can you prove it?" Timestamped, traceable records are mandatory under API RP 7G-2, API Q2, and OSHA 29 CFR 1910.
- **Inspectors spend more time reporting than inspecting:** Manual report compilation, duplicate data entry, and emailed photos consume half or more of productive time.

WHAT IQ3 IS

IQ3 is a **field capture + documentation system** that creates a Digital Chain of Custody for every tool in your fleet: a time-stamped inspection record combining **video, photos, and structured checklist data** - captured on any Android or iOS device (even offline) and organized in the MMS for review, retrieval, and reporting.

Every record is searchable by 40+ indices (date, inspector, Asset ID, location, bookmark, and more) and stored securely in a Tier-4 data center for up to 5 years.

The 3 Lanes

LANE 1 Checklist + Auto-Generated Reports

Day-to-day throughput

Use for: Motor teardown inspections, dimensional checks, post-run evaluations, receiving QA, safety audits, daily shift logs

How: Structured checklists with pass/fail markers, photo attachments at item level, notes - auto-generates PDF reports

Why: Consistent documentation across every location; no manual report compilation

LANE 2 Video + Checklist Overlay

Close-out proof / condition evidence

Use for: Rotor/stator condition documentation, pre-refurbishment evidence, wear charge justification, returned tool intake

How: Continuous video with checklist items completed during capture (overlay) — timestamped and bookmarked

Why: Defensible "what it looked like at the time" record for disputes, warranty claims, and customer deliverables

LANE 3 RVI – Remote Video Inspection

Expert eyes at any location, instantly

Use for: Remote expert review of returned tools, cross-location QA decisions, customer-facing inspections, field troubleshooting

How: SMS/email invite → browserbased (no app install) → live video stream with real-time bookmarks and multi-party conferencing

Why: Senior engineers in HQ direct inspections at any field yard without travel - compresses decision timelines from days to minutes

Document Handling

Word/Excel ingestion: Inspectors can add typed text and embed photos directly into existing Word/Excel documents (preserves current deliverable format)

PDF digitization: PDFs can be digitized in the MMS with structured entry fields, checkboxes, and radio buttons

Offline-first capture: Built for shop and field environments - capture offline, sync when returning to connectivity

What This Provides Day-to-Day`

- Digital Chain of Custody for every tool in your fleet
- Auto-generated standardized reports (Lane 1)
- Condition evidence that stands up to customer scrutiny (Lane 2)
- Remote expert decisions without travel (Lane 3)
- Pass/Fail color-coded status at a glance across all inspections
- Searchable records by Asset ID for full tool lifecycle traceability
- Fits Alongside Existing Systems

IQ3 does not replace your ERP, maintenance management, or drilling data systems - and it **does not require integrations to provide value.**

IQ3 runs in parallel as the **field evidence and documentation layer**, producing standardized, time-stamped inspection records that can be referenced when assembling customer deliverables, responding to audit questions, or making refurb/scrap decisions.

When you do want tighter alignment,

IQ3 provides APIs and an SDK for integration.

- Your Data Is Safe With IQ3
- Advanced encryption protects every inspection
- Secure storage in Tier-4 monitored data centers
- Track every viewer and every change made
- Automatic backups protect against data loss
- We Guarantee a 300% ROI
- Or the software and installation fees are free.

Key Use Cases for This Vertical

Post-Run Tool Inspection: Document rotor/stator condition, bearing wear, and housing integrity the moment a tool returns from the field. Timestamped video + checklist creates a defensible record for refurb vs. scrap decisions.

Multi-Location QA Standardization: Same inspection template across Midland, OKC, Denver, and Calgary. Auto-generated reports ensure Conroe sees the same documentation standard from every yard.

Shipping & Receiving Verification: Record outbound tool condition before shipping and inbound condition on receipt. If a customer receives equipment not in good order, conduct an RVI event to document the claim and eliminate disputes.

Remote Expert Inspection via RVI: Senior engineers at HQ guide field technicians through complex inspections in real time - no travel, no app install, no delays. Bring in multiple participants from any location.