

SAP Calibrations Made Easy - from Paperwork to Precision

... Empower Your Technicians with a Mobile-First SAP Fiori Calibration Cockpit ...

Executive Summary

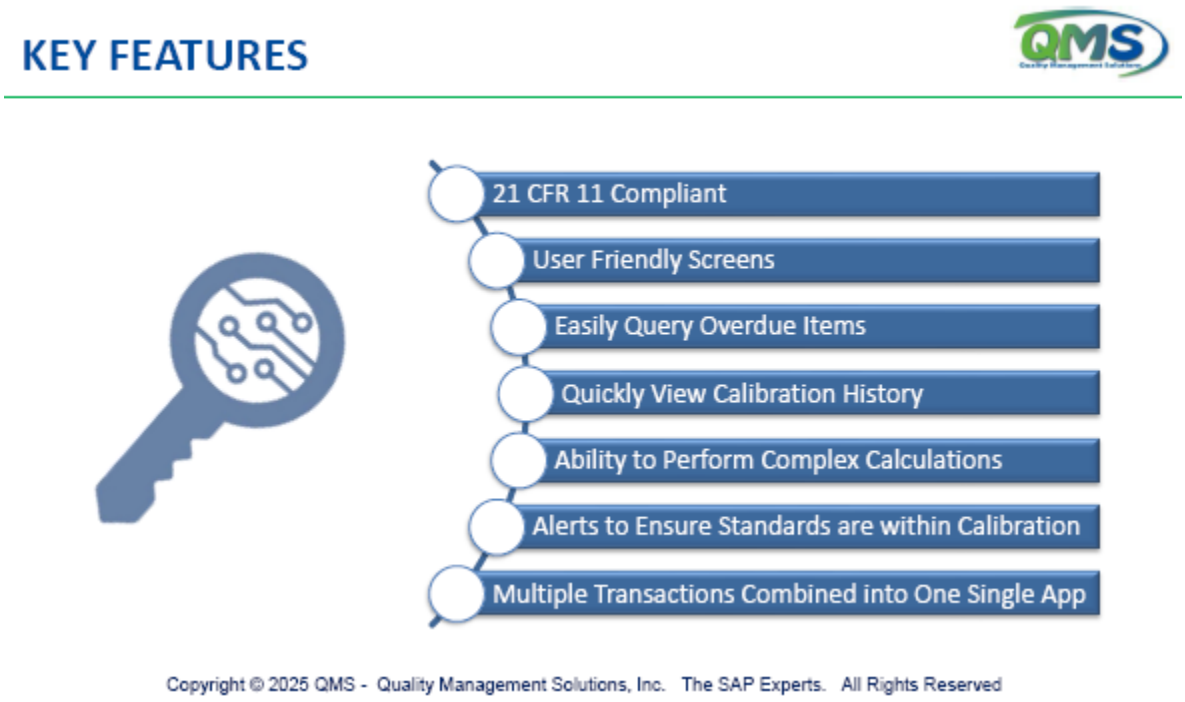
Traditional SAP asset calibration relies on paper logs, desktop-bound data entry, and delayed compliance visibility. The **SAP Calibrations Made Easy - from Paperwork to Precision** BTP/Fiori app bridges the gap between the shop floor and SAP Plant Maintenance (PM) / Quality Management (QM). Built on modern SAP Fiori UX principles, this solution is a native SAP BTP/Fiori Solution to digitalize instrument calibration and automate compliance by putting real-time worklists, electronic signatures, and data entry directly into the hands of field technicians.

Business Challenges Addressed

- **Eliminate paper risks:** Users execute calibration steps digitally on the mobile Fiori app, which completely eradicates manual transcription errors and instantly syncs accurate data back to SAP digitalizing technician floor workflows.
- **Automate regulatory compliance**: Enforces strict FDA 21 CFR Part 11 and GxP standards utilizing electronic signatures and tamper-proof logs to ensure your facility always remains 100% audit ready. Meets strict industry standards, fully aligning with ISO 17025 and 21 CFR Part 11 guidelines and eliminates delayed or missing "As-Found / As-Left" documentation to trigger audit failures.
- **Reduce operational downtime**: Automates plant instrument testing and eliminates manual data entry with a mobile-first user experience built on SAP BTP. Integrates natively with SAP PM & SAP QM to capture real-time tolerance validations and instant out-of-tolerance alerts, generates automated compliance certificates, and updates asset master data instantly thereby reducing operational downtime while ensuring strict regulatory audit trails.
- **Protect your digital core:** Uses a cloud-native BTP architecture to deploy mission-critical extensions seamlessly outside your central ERP using standard APIs eliminating costly technical debt and simplifying future system upgrades
- **User Experience Consolidation:** Eliminates multiple complex transactions (QA32, QE51N, IW32) and unfriendly screens to complete a single calibration cycle by bundling planning, work order

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scheduling, inspection results recording, and reverse traceability reports into one single, user-friendly cockpit.

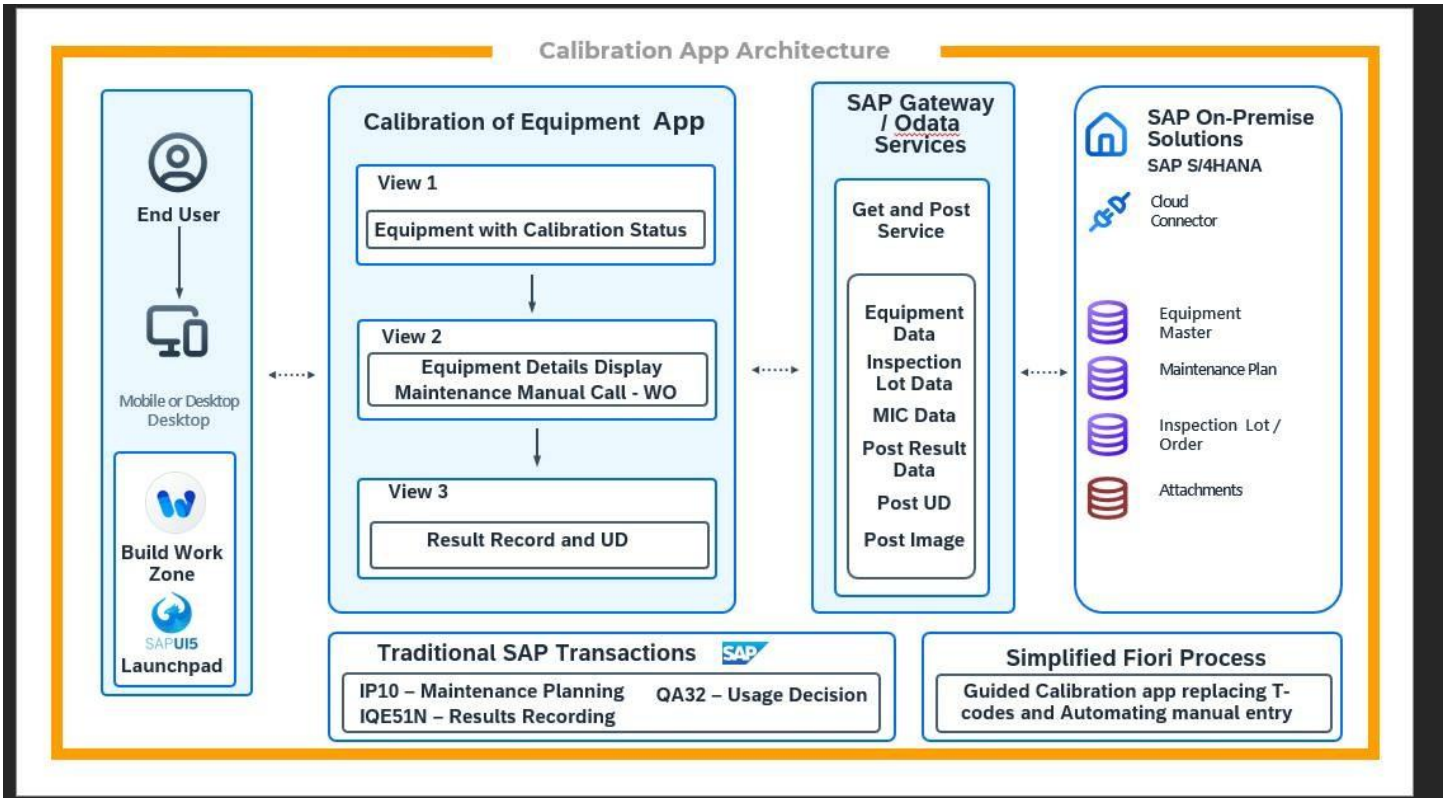


Key Capabilities

- **Unified Mobile Worklist**
  - **Dynamic Prioritization:** Displays real-time calibration tasks ordered by urgency and location.
  - **Advanced Filtering:** Filters worklists by equipment category, production line, or calibration due date.
- **Direct Measurement Data Entry**
  - **Guided Execution:** Displays pre-configured Master Inspection Characteristics (MICs) per asset.
  - **As-Found / As-Left Logging:** Records baseline and final condition values side-by-side.
  - **Instant Validation:** Flags out-of-tolerance entries instantly with visual color indicators.
- **Compliance & Quality Control**
  - **FDA 21 CFR Part 11 Compliant:** Built-in dual-factor electronic signatures for verified approvals.
  - **Attachment Capture:** Allows technicians to snap photos of asset conditions or physical tags using mobile cameras.
  - **Automated Usage Decisions (UD):** Automatically triggers positive or negative UD status in SAP based on entry results.

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Technical Architecture & Integration



- **Front-End:** Responsive SAPUI5 framework optimized for iOS and Android tablets or smartphones.
- **Integration Layer:** Secure OData services communicating via SAP BTP Cloud Connector.
- **Core Foundation:** Fully compatible with SAP S/4HANA and legacy SAP ERP ECC 6.0.

Measurable Business Benefits

- **Accelerated Compliance:** Drastically reduces total data processing time from field measurement to approved audit status.
- **Optimized Workforce:** Eliminates administrative office tasks, freeing up technicians for more technical wrench-time.
- **Enhanced Asset Lifespan:** Better tracking accuracy uncovers degradation trends before critical equipment failures happen.

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