Tivoli® software

Speed and refine calibration to drive exceptional integrated asset performance.

Highlights

- Automate calibration processes across your enterprise to help increase effectiveness and minimize operating costs

- Leverage full traceability and reverse traceability to ease compliance with industry regulations

- Enable technicians to perform mobile calibration using handheld computers to streamline work tasks

- Enhance accuracy and reporting of instrument calibration to help address regulatory compliance

To ensure that assets perform at acceptable levels, many companies rely on calibration, a technique that compares performance to a standard of known accuracy. Improper calibration of tools, equipment or standards can lead to errors that diminish efficiency, compromise product quality, damage plant assets, increase operational costs and reduce profits.

The calibration process is especially important for companies operating in industries that are governed by Food and Drug Administration (FDA) requirements, such as 21 CFR Part 11. Companies using tools and instruments that are integral to maintenance activities used to check, adjust or systematically standardize graduations of quantitative output measurements require a complete calibration management solution.

Although many companies utilize asset management systems, assets are often calibrated manually, which entails cumbersome, error-prone procedures. Consequently, assets that require routine calibration may be ineffectively managed and are difficult to audit.

To help you manage calibration for all assets — as well as the standards that are used to calibrate them — you can use IBM Maximo Calibration to provide your organization with:

- Detailed documentation.
- Data validation.
- Traceability and reverse traceability.
- Auditable reports.

Maximo Calibration is a comprehensive, customizable solution that can help improve operational efficiency and your

efforts to address compliance with regulations while reducing downtime and operating costs.

Calibrate all types of assets following a common, flexible approach

With Maximo Calibration, you can uniquely identify instruments, measurement and test equipment, and calibration standards — all through a single user interface. Because all asset calibrations are handled using a single solution, it's faster and easier to manage various types of calibrated assets. For flexibility, you can also manage fixed-site instruments as "locations," and you can issue standards from user-defined tool rooms.

Use calibration intervals and work orders to simplify asset management

Based on user-defined calibration periods for each asset, Maximo Calibration can automatically generate calibration work orders for the next due date. This approach helps ensure that asset calibrations are performed regularly, within established intervals.

Employ customized data sheets and job plans to improve performance

With Maximo Calibration, you can create calibration data sheets, which are Web-based templates that can be applied to multiple instruments. You can customize the data sheets and generate auditable reports for:

- Analog assets, such as transmitters and gauges.
- Discrete assets, like switches.
- A combination of both analog and discrete assets, for items that have multiple functions.

Calibration data sheet templates offer rich functionality, allowing you to select from a variety of available criteria for tolerance levels and input range limits — or to create your own unique limits. As you collect information, calibration "as found" and "as left" data is stored within the data sheets. The solution validates that:

- Input readings are within user-defined limits.
- Output readings are within acceptable tolerance limits.
- Standards are operational and within their current calibration periods.

Using Maximo Calibration, you can create job plans to perform calibrations according to approved standard operating procedures. You can also associate one or more calibration data sheets with each job plan work asset. Information from the data sheets can then serve as the basis for accurately analyzing data and evaluating asset performance.

Use mobile calibration techniques for end-to-end automation

Using handheld computers in conjunction with IBM Maximo Mobile Work Manager, technicians can easily keep Maximo Calibration up to date with accurate, timely information. This helps ensure that technicians have the right information at their fingertips during their calibration rounds. Maximo Calibration can be deployed on virtually any mobile device — in or out of coverage — wherever you need it.

Using mobile technology to automate calibration processes from end to end, your organization can help eliminate data entry delays and paperwork errors, and achieve greater compliance with

policies and asset reliability. Maximo Calibration delivers:

- Support for electronic validation, signature and audit.
- Easy entry of "as found," "as left" and ambient condition data, and calculation of allowable limits based on this data.
- Alerts when instruments are outside of operating limits, or when standards are past the calibration date.
- Barcode scanning for instruments and standards identification.
- Calibration history at the point of performance.
- Tracking of instrument swap-outs.

Demonstrate traceability and a complete audit trail

For companies operating in regulated industries, it's crucial to demonstrate that calibration standards and tools are fully traceable. With Maximo Calibration, you can quickly identify the standard that was used to perform calibration for each of your assets. Using reverse traceability, you can easily ascertain which assets were calibrated by a particular standard — an invaluable tool for companies that would otherwise have to use tedious manual processes to identify an instrument that was calibrated incorrectly.

Maximo Calibration provides detailed historical records of calibration measurements for instruments, measurement and test equipment, and standards. Its electronic signature and auditing functionality help you provide a complete and security-rich audit trail.

The calibration solution supports an asset service–centric business model

Many leading companies across a variety of industries utilize Maximo Calibration to streamline and enhance their calibration management capabilities.

The solution provides enhanced capabilities to implement a service-centric business model that takes advantage of the current focus and trend to aligning service management requirements to meet overall business objectives.

For more information

To learn more about how Maximo Calibration can help your organization better manage instrument calibration processes, contact your IBM representative or IBM Business Partner, or visit **ibm.com**/tivoli or maximo.com

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