



# Calibrate the Cloud<sup>®</sup>



Total Calibration Management Solution

Outline of Services and Requirements for Calibration and Configuration of Mission Critical Facilities

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# Summary

This document outlines the general requirements for supporting the Total Calibration Management Solution (TCMS) as presented by Standard Calibrations, Inc. (SCI). The Total Calibration Management Solution through SCI's Calibrate the Cloud® business unit offers selected services dedicated to the improved efficiency of mission critical facilities.

Since 1989, SCI has provided support for multiple industries with our experience in measurement science technology in the field of application design, procurement, installation, calibration (laboratory & on-Site), repair, outage support, and technical assistance with measurement and control areas of automation systems.

SCI's **Total Calibration Management Program** (TCMS) consists of several elements that include;

- ❖ NIST Traceable instrument calibration, configuration and repair.
- ❖ Cloud based, customer accessible Instrument Database Asset Management tool.
- ❖ Vendor Managed Inventory / Ship-in-Place Program.
- ❖ Safety related equipment compliance testing, support and sales.
- ❖ Certified TABB HVAC Services.
- ❖ Field Service Emergent Response.

## Accreditations/Requirements

### Minimum requirements:

<b>ISO/IEC 17025:2005</b>	General requirements for the competence of testing and calibration laboratories.
<b>ANSI/NCSL Z540.3-2006</b>	Requirements for calibration of measuring and test equipment.
<b>Calibration Technicians</b>	All technicians shall be qualified with regular proficiency testing in all applicable measurement areas.
<b>NIST Traceable</b>	Calibration measurements are NIST traceable using a TAR (Total Accuracy Ratio) of 4:1 and display resolution equal to or greater than installed sensors.
<b>Equipment Validation:</b>	All calibrated equipment to have minimum documentation, including: instrument model number, serial number, description and customer asset ID, calibration event data (including calibration date, next calibration due date, pass/fail, technician performing calibration, calibration standard model/serial number, and all data regarding standard, date and due date.) Additionally, as found/as left data if required.



# TCMS Components

## NIST Traceable instrument calibration, configuration and repair

General standard services for calibration, configuration and repair of critical environmental instruments to be performed within the mission critical facility may include:

- Onsite calibration/configuration of end-to-end BMS loops.
- System scaling adjustments (i.e. BMS 4-20mA loop scaling)
- Review of sensors and other instruments including: Dry bulb temperature, relative humidity, wet bulb/dew point temperature, liquid pressure, air and water flow rate/totalization, level, analytical, immersion temperature, air differential pressure, high static switches, gas detection. PLC's, switches, breakers, and safety equipment are also supported.

Reasons for calibration and configuration issues may include:

- |                          |                           |                                     |
|--------------------------|---------------------------|-------------------------------------|
| • Drift                  | • Failure                 | • Incorrect part or sensor setup    |
| • Incorrect BMS scaling  | • Incorrect calibration   | • Installed incorrectly             |
| • Manufacturers defect   | • Incorrect location      | • Fouled sensor/system              |
| • Use of outdated sensor | • Incorrect configuration | • Use of outdated sensor technology |

## Instrument Database Asset Management Tool

SCI provides a customer accessible, modular, browser-based calibration asset management solution. The software is a powerful, flexible and scalable solution for managing your calibration assets. Designed by metrologists for metrology, it is ideal for managing workflow through the calibration laboratory and external events.

## Vendor Managed Inventory Ship-in-Place Program

The **SiP Program** focuses on select critical environmental control devices that require repeat calibration, re-certification and usage configuration management. Fully calibrated and accepted inventory controlled material will be maintained at both the customer's and SCI's locations for immediate or just in time delivery of sensors, PLC's, switches, breakers, safety equipment and other critical environmental instruments.

All services coincide with the appropriate standards and industry knowledge for testing, shelf life, calibration, transportation and storage under ANSI, OSHA, ASTM or other industry standards.

## Safety Related Equipment Compliance

Dielectric and other testing of all safety related items such as rubber gloves, rubber sleeves, insulated or fiberglass hot sticks, line hoses and hotline jumpers as well as confined space entry/air sampling. All services coincide with the appropriate standards and industry knowledge for testing, shelf life, calibration, transportation and storage under ANSI, OSHA, ASTM or other industry standards and regulations.

## TABB Certification

No matter how well designed, certified TAB work fine-tunes the HVAC system. It is the means used to determine and monitor the overall system performance and may be utilized again and again well after the project is completed. Our unique ability to combine both building commissioning as well as testing and balancing services provides projects with cost savings as well as enhanced performance verification.

## Field Service Emergent Response

SCI's employees are ready and available to meet our customers' needs worldwide, and currently service branches of the military and other government entities, on short notice. Mission critical facility emergent response requirements can be determined for each facility, location, and specific need.



# Customers

## Just A Few Of Our Valued Customers:



## Contact Information

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