CMX
ENTERPRISE

CMX Enterprise

All-in-one
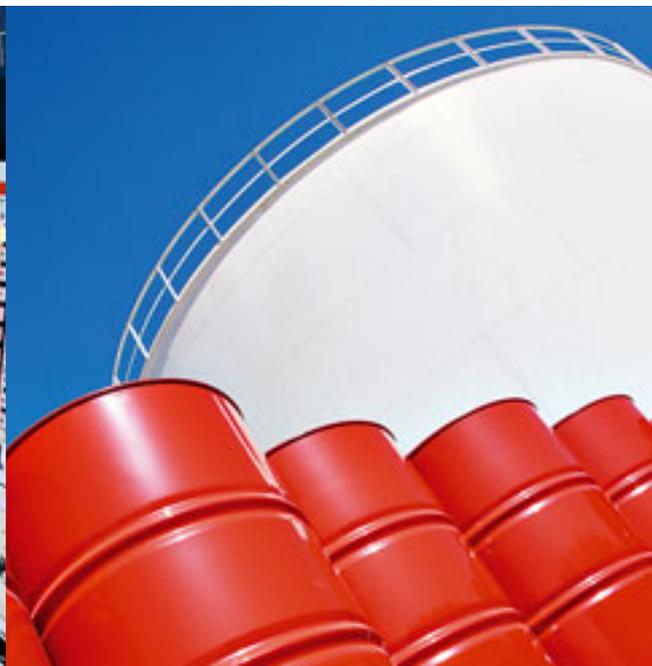calibration solution
for large companies.

beamex

CMX Enterprise

All your company needs for optimizing calibration management.

Typically, large corporations have had to depend on multiple calibration software installations to meet the needs of all of the various plants in the corporation. This type of software solution for calibration management is quite complex and it is also difficult to manage efficiently on corporate level. Accessing different calibration assets may be complicated and finding areas of improvement is difficult.

CMX Enterprise takes calibration management to a higher level. One floating server installation of CMX Enterprise in the corporate server and all plants can share the same system and database worldwide. With an unlimited number of positions in a database and all the features of CMX software as standard, CMX Enterprise meets the needs of corporations with large calibration assets and multiple plants. Storing information pertaining to calibration procedures in one database and sharing similar procedures on the corporate level increases the productivity of the company's workforce and makes the entire calibration system more efficient. Making conclusions, improving operations and analysing calibration results is also much easier.

CMX Enterprise is an all-in-one solution for calibration management:

- Meets all essential regulatory requirements (ISO, FDA, etc.).
- All plants worldwide are able to share the same system and database.
- Database with unlimited number of positions.
- Automated procedures increase productivity.
- All features of CMX calibration software as standard.
- Many customization possibilities.
- Can be integrated to a maintenance management system (e.g. SAP®, Maximo®).
- 12-month Software Service Agreement free of charge keeps the system up to date.

CMX Enterprise is a calibration management solution that delivers corporate-level value:

- Ability to analyze and determine the right calibration interval on company level.
- Improved productivity through automated calibration procedures.
- Easy and safe documentation of calibration information.
- Improved quality of stored calibration results.
- Increased productivity and efficiency through sharing the same system and procedures.
- Beamex's support during the use of the system.

87%

of CMX customers state that using Beamex products has improved the quality of their calibration system.*
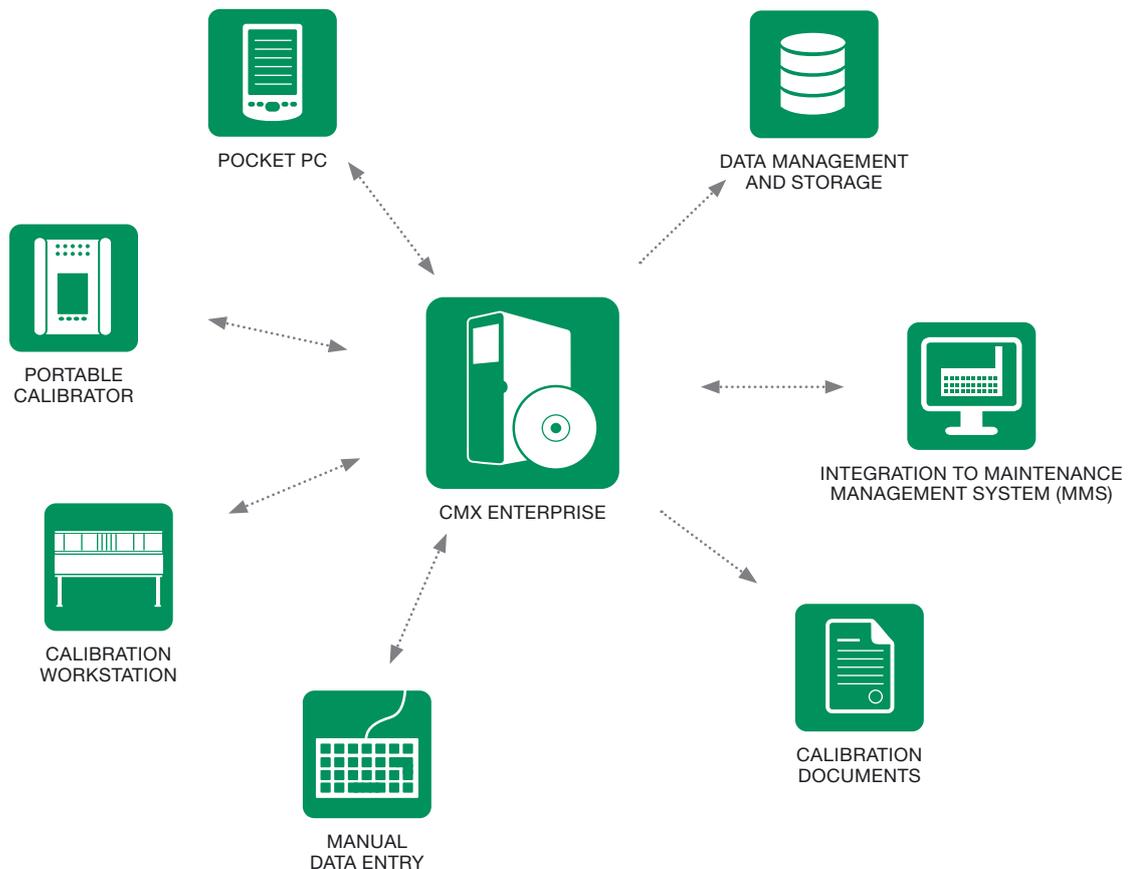
90%

of CMX customers state that using Beamex products has improved the efficiency of their calibration procedures*

* Beamex Customer Survey 2006 (Dec 2006)

Total control of a company's calibration assets worldwide

POCKET PC

DATA MANAGEMENT
AND STORAGE

PORTABLE
CALIBRATOR

CMX ENTERPRISE

INTEGRATION TO MAINTENANCE
MANAGEMENT SYSTEM (MMS)

CALIBRATION
WORKSTATION

CALIBRATION
DOCUMENTS

MANUAL
DATA ENTRY

Upload calibration procedures from CMX Enterprise to portable calibrators and calibration workstations. Before performing any calibrations, you can upload all the calibration procedures that you need to do from CMX Enterprise to your field calibrator or workstation. No need for pen and paper.

Download calibration results back to CMX Enterprise. When the calibrations are done, you can download all the calibration information and results from the calibrator back to CMX Enterprise. It's fast and efficient.

Manually enter calibration data into CMX Enterprise. If you like, you can also manually enter calibration information into CMX Enterprise. This way you can store and manage all possible calibration standards with CMX Enterprise, no matter what you calibrate.

Mobile calibration management with Pocket PC. Using CMX Enterprise's Pocket PC interface for downloading and uploading calibration information makes the entire calibration system paperless.

Create, manage and store calibration information safely and efficiently. All calibration data, procedures and results are stored and managed in the CMX database. All documentation and procedures in CMX are in auditable and traceable format and it adheres to regulatory requirements, such as ISO 17025, cGMP and 21 CFR Part 11.
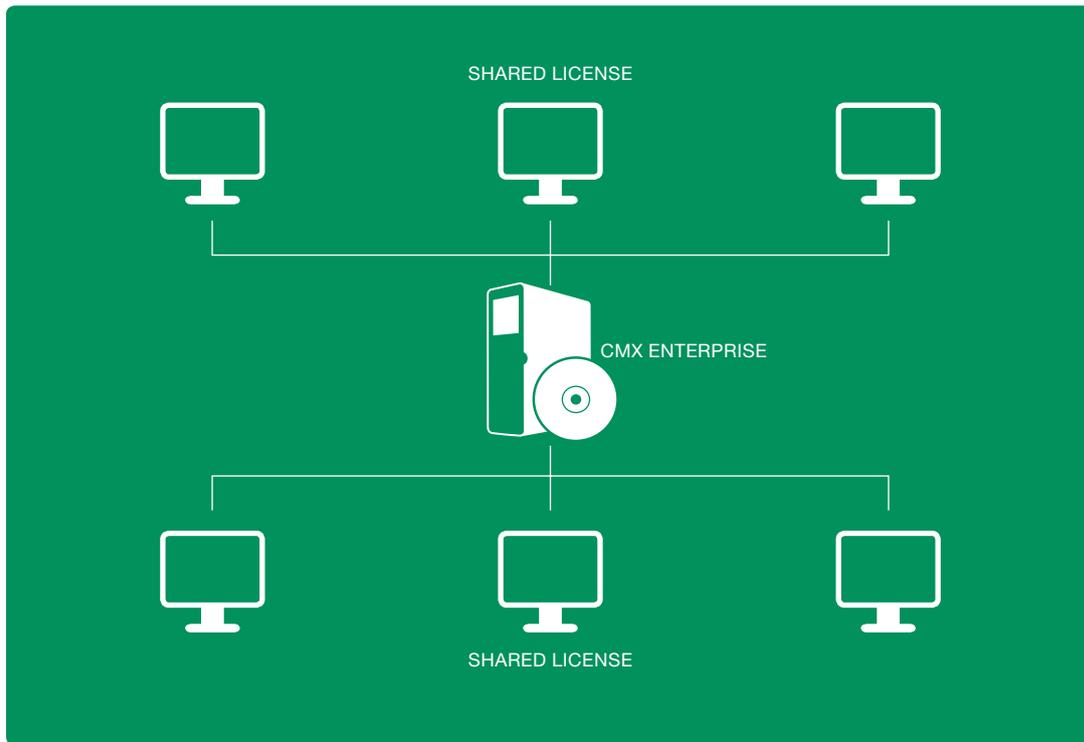
Integration to a maintenance management system (MMS). Plant hierarchy and work orders are stored in MMS and from there transferred to CMX Enterprise, which stores all calibration procedures, standards and results. When calibration work has been completed, CMX Enterprise sends acknowledgement of the calibration back to MMS.

Print calibration certificates, reports and labels in electronic format, on paper or both; it's up to you.

Efficient calibration asset management

SHARED LICENSE

CMX ENTERPRISE

SHARED LICENSE

Simple and easy to use

Explorer-like browser interface. The explorer-type user interface allows you to navigate through calibration records quickly and easily.

"Drag and drop" functionality. In CMX Enterprise, you can move equipment by simply dragging and dropping it. In addition, workflows can be created by dragging and dropping equipment. You can also drag and drop work orders directly to your field calibrator.

Meets corporate-level requirements

Floating server installation. CMX Enterprise's server installation allows the system to be shared with other plants worldwide. This means also that all calibration data can be stored in one database.

Unlimited number of positions in the database. Since entering an unlimited number of positions into the CMX Enterprise database is possible, the software meets even the most demanding needs with many users and a large amount of calibration information.

Report Design. The Report Design feature provides unlimited possibilities to customize calibration reports to meet company-specific requirements. The Report Design feature allows you to create completely new documents or to modify pre-designed document layouts according to the standards of the company.

Ability to customize user-interface. CMX Enterprise's user interface can be modified to meet company-specific standards, for instance in terms of terminology. Adding and modifying user-definable fields and an unlimited amount of document links to an external file system is also possible.
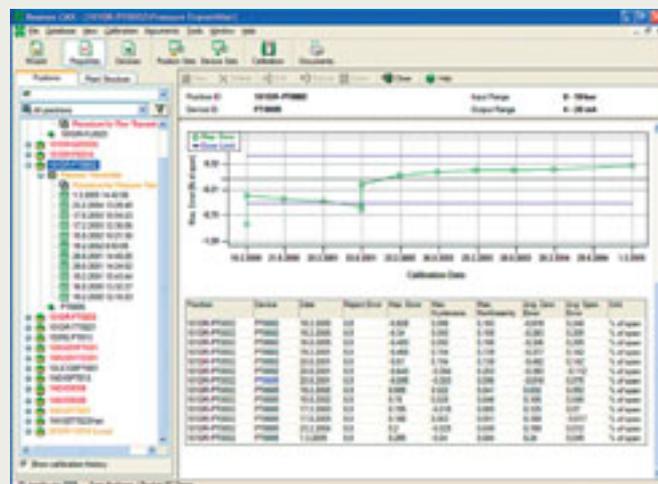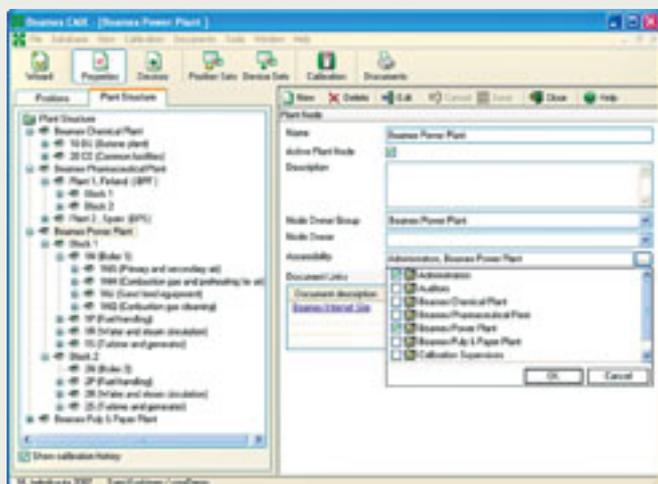
CMX connector for SAP® and Maximo®. As a standard feature, CMX Enterprise can be integrated to SAP® or Maximo®. It is also possible to integrate the software to other maintenance management systems (MMS).

Pocket PC interface as standard. The stand-alone Pocket PC interface allows manual data entry on-site, downloads of work orders, test procedures and routines. It stores all results and after the tests, uploads all results and notes to the central database.

Adheres to regulatory requirements

ISO 17025, cGMP and 21 CFR Part 11. CMX Enterprise stores and documents calibration information in auditable and traceable format by meeting regulatory requirements such as ISO 17025, cGMP and 21 CFR Part 11.

Change Management and Audit Trail. CMX Enterprise's Change Management complies with FDA requirements (21 CFR Part 11 Electronic Records and Electronic Signatures). Change Management stores record history including timestamp, record author or editor, record status and a unique key to the Audit Trail. Audit Trail tracks detailed information of what data fields have been added, modified or deleted, by whom, when and why. Audit Trail also saves illegal login attempts.

Productive and powerful calibration asset management

Manage all calibration quantities. CMX Enterprise allows you to manage various calibration quantities, including pressure, temperature, electrical, indicators, recorders, mass, pH, length, flow and many others.

Automated procedures. CMX Enterprise's automated calibration procedures make calibration management efficient, fast and repeatable. Automated procedures minimize mistakes compared to manual methods of calibration management.

Position, device and calibrator database. CMX tracks positions, devices and their functions and calibration procedures, storing and maintaining the complete history of performed calibration tasks. No need to remember tasks, the system automatically alerts you when defined objects require recalibration and also guides the user through the entire calibration procedure from start to finish.

Position and device sets. Create and maintain position and device sets (also known as workflows). Static sets assist users in planning calibration tasks and working with a certain group of positions and devices instead of reviewing the entire database.

Wizard for database population. Database Wizard guides you in creating new equipment.

Plant structure. The multidimensional plant structure in CMX Enterprise is similar to your real plant structure with uninstalled, installed and spare equipment with multiple procedures and work orders. Managing even complicated plant structure is easy.

User accounts, groups and permissions. For security purposes, you can create user accounts, user groups and permissions for various levels.

Pickup lists. These allow you to enter frequently used data into the system for later use. Whenever you need the data, you just pick it from the list of pre-entered options. No need to write it over and over again.

History Trend function. This allows you to plan the optimal calibration interval for your instruments. You can analyze the instrument's drift over a certain time period. History Trend displays numerically and graphically the instrument's drift over a certain time period.

Calibrating weighing instruments. Weighing instruments are typically very accurate, but they still need to be calibrated frequently to ensure that measurement value and uncertainty meet requirements. CMX calibration management software includes Eccentricity Tests, Repeatability Tests, Weighing Tests, and Minimum Capability Weighing Tests to assist in complying with all calibration requirements.

Documentation possibilities. All calibration documentation (certificates, reports, labels, route lists, etc.) can be printed and stored in electronic format or on paper. CMX Enterprise contains many different document templates as a standard feature. Storing documents in CMX database is easy, safe and efficient.

Seamless communication with documenting calibrators

Beamex calibrator support. CMX Enterprise offers built-in communication with Beamex's documenting calibrators for downloading and uploading calibration information. It's fast and efficient and there's no need for a notepad and pen. In addition, there will be no mistakes from incorrect data entry, as that is always possible when entering data manually.

Third-party calibrator support. CMX Enterprise also supports communication with all the other major field calibrator brands.

Make the most of it with Beamex's Professional Services

Installation and training. Beamex provides worldwide services for installation and training. One-day, on-site installation and 2-day, on-site training is included in the purchase of CMX Enterprise. This way you are able to have your new calibration system up and running in no time. You also learn the capabilities of Beamex calibration equipment, how to use it and how your organization will benefit the most from it.

Software Service Agreement (SSA). The Software Service Agreement is a valuable service package that complements your investment into Beamex's calibration management software. A 12-month Software Service Agreement is included in the purchase of CMX Enterprise. SSA is the gateway to automatic and regular software upgrades and Beamex's Help Desk services. Software upgrades keep the system constantly up-to-date.

Database conversions. If you want to upgrade to CMX Enterprise from some other calibration system, Beamex provides services for converting the database.

Validation. Beamex's Validation Services provide support for pharmaceutical companies in the implementation of CMX calibration management software. A Beamex Validation Specialist performs the validation and the customer witnesses the results of the tests.

Feature comparison of the CMX product family

CMX Product features	Light	Professional	Enterprise
Positions/Tags in the database	1000	1000	Unlimited
Optional 5 000 positions/tags in the database		O	
Optional 10 000 positions/tags in the database		O	
Single workstation license	●	●	
Floating server licenses		O	●
Networking/multi-user support		●	●
Position/Tag and Device database	●	●	●
Position/Tag and Device sets	●	●	●
Calibrator database	●	●	●
Wizard for database population	●	●	●
Communication with Beamex calibrators	●	●	●
Manual data entry	●	●	●
Average and uncertainty calculation		●	●
Plant structure	●	●	●
User accounts, groups and permissions	●	●	●
Pickup lists	●	●	●
Saveable filters		●	●
Standard paper reporting templates	9	17	17
Importing/Exporting paper reporting templates		●	●
SQL Server 2005 Express database	●	●	●
SQL Server 2005 Express database tools		●	●
CMX Database Manager tool	●	●	●
Oracle database support		O	●
Communication with 3rd-party calibrators		O	O
Configurable user interface		O	●
History Trend		O	●
Report Design		O	●
Pocket PC interface		O	●
Change Management		O	●
Weighing instrument support		O	●
CMX connector for SAP®		O	●
CMX connector for Maximo®		O	●
Configurable CMX connector for other software			O
Integration service to other software			O
Software Service Agreement (SSA) for 6 months		●	
Software Service Agreement (SSA) for 12 months		O	●
Factory Type Validation – URS/FDS/IQ/OQ/PQ		O	●
On-site installation and user training (3 days)		O	●
QD3 database conversion (1 database)		O	●
QM6 database conversion (1 database)		O	●
Third-party database conversion		O	O
Report designing service		O	O
On-site validation service		O	O

● = Standard feature

O = Optional feature

Related products and services

Portable calibrators

Beamex's range of portable MC-calibrators for field calibration is known for their accuracy, versatility and also for meeting both high and uncompromised quality standards. CMX Enterprise has built-in communication with Beamex's documenting calibrators.

Workstations

A workstation can be considered ideal when most of the maintenance and calibration tasks are performed in the workshop. Beamex's workstation is a modular testing and calibration system designed for use in workshops and laboratories.

Professional Services

An essential part of a complete calibration solution are our Professional Services: – service and re-calibration, implementation and training, software support, validation services and integration services. Working with you step-by-step, from implementation to support and re-calibration, Beamex's Professional Services help you to get the most from your calibration investment.

The Complete CMX Product Family

Choose the calibration software that best meets your needs.

CMX Light

Easy-to-use calibration software for a single workstation.

- Quick and easy start-up software.
- For a single workstation.
- Database for 1,000 positions.
- Wizard for easy database population.
- Communication with Beamex calibrators.
- Manual data entry of calibration results.
- Paper documentation includes standard certificates, reports and labels.

CMX Professional

Calibration software with wide customization possibilities.

- Database for 1,000, 5,000 or 10,000 positions.
- Installation options for a network server or workstation.
- New option for weighing instruments.
- Other options: History Trend, Pocket PC Interface, Document Design, Change Management, etc.
- Interface option for SAP® and Maximo®.
- Optional Software Service Agreement offers automatic software upgrades and the first 6 months of service free of charge.
- Beamex's Help Desk services.

CMX Enterprise

All-in-one calibration solution for large companies.

- Enterprise includes features, such as History Trend, Report Design, Pocket PC Interface, Change Management and Calibration of Weighing Instruments.
- One floating installation for the corporate server for sharing the same system in all locations worldwide.
- Database with unlimited number of positions.
- Optional, configurable interfacing with other software systems.
- Twelve-month Software Service Agreement free of charge keeps the system up to date.

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w w w . b e a m e x . c o m

Portable calibrators

Workstations

Calibration software

Professional services

Industry solutions

For more information, please visit **www.beamex.com** or contact **info@beamex.com**