

# BEAMEX ORDERING GUIDE

# CMX



# CMX PROFESSIONAL & CMX PROFESSIONAL FS

CMX version 2.12

CMX LICENSE TYPE		POSITION AMOUNT		LICENSE KEY		AMPLIFYING OPTIONS	
CMX PRO		1000 positions	9050227	CMX hardware license key only CMX professional	9050130	Maintenance inspections	9050256
500 positions included	9050110	5000 positions	9050224				
1000 positions included	9050120	10 000 positions	9050226	CMX software license key Price per installation. Only available for CMX Professional FS and CMX Enterprise	9050245	bMobile*	9050259
CMX PRO FS <sup>1)</sup>		Unlimited positions	9050228				
1000 positions included	9050229					History trend	9050230
						Weighing instruments	9050265
<sup>1)</sup> FS = Floating Server License See "License Key section"						*bMobile is included in CMX 2.12.1 and onwards, but can be ordered as an upgrade to older versions.	

SECURITY RELATED OPTIONS		USER INTERFACE AND REPORTING		BUSINESS BRIDGE (B3) OPTIONS	
Change management including audit trail and electronic signature	9050270	Configurable user interface	9050365	Work order handling. Beamex Business Bridge is required in order to utilize the Work order handling option	9050257
		Report design	9050250		
Lightweight directory access protocol (LDAP)	9050255				
Mobile security plus option	9050258				

SOFTWARE SUPPORT SERVICES		UPGRADE		COMMUNICATION OPTIONS	
Software Service Agreement		From old versions		Fluke 743b/744 communication driver, 9050290 Note! May require communication option in the calibrator.	
Software Maintenance Agreement		Changing license type			
Software Helpdesk Agreement		- CMX Light to Professional		GE Druck DPI605/DPI615/TRX-II communication driver. 9050280 Note! May require communication option in the calibrator.	
		- CMX Professional to Professional FS			

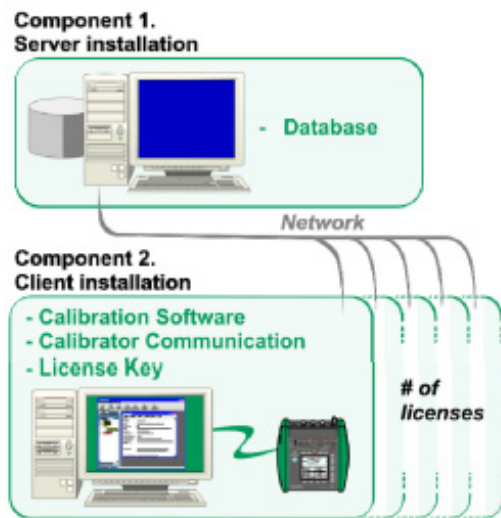
# CMX ENTERPRISE

CMX version 2.12

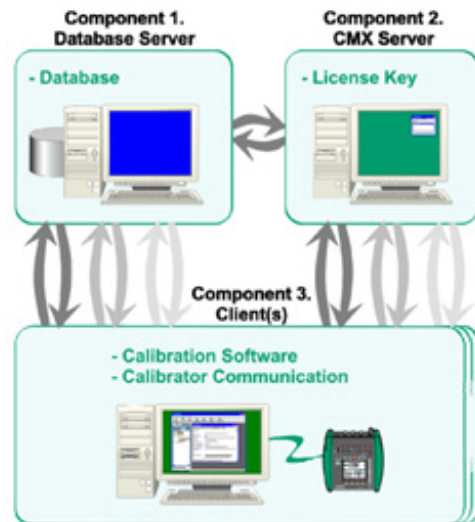
STANDARD FEATURES	CMX LICENSE TYPE	POSITION AMOUNT	LICENSE KEY	AMPLIFYING OPTIONS
	<p>CMX ENTERPRISE                      Factory Type Validation 9050149                      - copy of signed IQ/OQ/PQ in paper and PDF format and empty IQ/OQ/PQ templates in MS Word format are included.</p>	Unlimited positions	<p>CMX software license key 9050245                      Price per installation. Only available for CMX Professional FS and CMX Enterprise</p>	<p>Maintenance inspections                      bMobile*                      History trend                      Weighing instruments</p> <p>*bMobile is included in CMX 2.12.1 and onwards, but can be ordered as an upgrade to older versions.</p>
STANDARD FEATURES	SECURITY RELATED OPTIONS	USER INTERFACE AND REPORTING	BUSINESS BRIDGE (B3) OPTIONS	
	<p>Change management including audit trail and electronic signature</p> <p>Lightweight directory access protocol (LDAP)</p> <p>Mobile security plus option</p>	<p>Configurable user interface</p> <p>Report design</p>	<p>Work order handling                      Beamex Business Bridge is required in order to utilize the work order handling option</p>	
OPTIONS	SOFTWARE SUPPORT SERVICES	UPGRADE	COMMUNICATION OPTIONS	
	<p>Software Service Agreement                      Software Maintenance Agreement                      Software Helpdesk Agreement</p>	From old versions	<p>Fluke 743b/744 communication driver                      Note! May require communication option in the calibrator.</p> <p>GE Druck DPI605/DPI615/TRX-II communication driver                      Note! May require communication option in the calibrator.</p>	

# License type and standard features

## CMX PROFESSIONAL



## CMX PROFESSIONAL FS



### LICENSE TYPE AND STANDARD FEATURES

Description	CMX Professional 500	9050110
	<ul style="list-style-type: none"> <li>Each CMX client where the CMX is used requires a hardware license key.</li> <li>Additional software options are defined in each hardware license key.</li> <li>CMX default option of Microsoft SQL server 2012 Express is included free of charge.</li> <li>Max 500 positions (must upgrade to 1000 positions (9050227) first to increase positions further).</li> </ul>	
	<p><b>CMX PROFESSIONAL 1000</b></p> <ul style="list-style-type: none"> <li>Each CMX client where the CMX is used requires a hardware license key.</li> <li>Additional software options are defined in each hardware license key.</li> <li>CMX default option of Microsoft SQL server 2012 Express is included free of charge.</li> <li>Max 1000 Positions (unless upgraded).</li> </ul>	<p><b>9050120</b></p>
	<p><b>CMX PROFESSIONAL FS</b></p> <ul style="list-style-type: none"> <li>The CMX license server is a separate component which holds all CMX licenses (component 2 in the picture).</li> <li>Each CMX client can use the same CMX license(s) as long as there is a free license, which is not in use.</li> <li>When the CMX client is closed the license is automatically free on the license server.</li> <li>Additional software options are defined in each software license key.</li> <li>CMX default option of Microsoft SQL server 2012 Express is included free of charge.</li> <li>Max 1000 positions (unless upgraded).</li> </ul>	<p><b>9050229</b></p>
	<p><b>Supported instrument types:</b></p> <ul style="list-style-type: none"> <li>Pressure indicators.</li> <li>Pressure switches.</li> <li>Pressure transmitters with mA, HART, Profibus PA and Foundation Fieldbus H1 output.</li> <li>Temperature indicators.</li> <li>Temperature switches.</li> <li>Temperature transmitters with mA, HART, Profibus PA and Foundation Fieldbus H1 output.</li> <li>Electrical switches.</li> <li>Electrical indicators.</li> <li>Electrical transmitters.</li> <li>User defined instrument types can be created.</li> </ul>	

LICENSE TYPE AND STANDARD FEATURES

<b>Description</b>	<p>Security features</p> <ul style="list-style-type: none"> <li>• Users and user groups can be maintained in the database.</li> <li>• Users need individual ID and password to open the database and access CMX.</li> </ul> <p>Communication features:</p> <ul style="list-style-type: none"> <li>• CMX can communicate with MC6, MC6-Ex, MC6-WS, MC2, MC4, MC5, MC5-IS and MC5P calibrators.</li> </ul> <p>User interface and reporting features:</p> <ul style="list-style-type: none"> <li>• Calibration certificates in three (3) predefined formats.</li> <li>• Reports, multiple different predefined formats.</li> <li>• Labels, two (2) predefined formats.</li> </ul> <p>Other features:</p> <ul style="list-style-type: none"> <li>• Calibration history for each instrument is stored in the database.</li> <li>• Calibration references can be created in the database.</li> <li>• Automatic calculation of uncertainty for each calibration point when the calibrator, which has been used, is defined (requires that the calibrator and the calibrator specifications are created in the database).</li> </ul> <p>Calibration results can be manually entered to the database.</p>
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## Position amount

POSITION AMOUNT

<b>Description</b>	<b>CMX Pro</b>	
	• 500 positions/tags as standard	9050110
	• 1000 positions/tags as standard	9050120
	• 1000 positions/tags (mandatory first upgrade for CMX Professional 500 )	9050227
	• 5000 positions/tags (upgrade)	9050224
	• 10 000 positions/tags (upgrade)	9050226
	• Unlimited amount of instruments (upgrade)	9050228
<b>Requirements</b>	• CMX PRO or CMX PRO FS.	

## License key

LICENSE KEY

<b>Description</b>	<p><b>Hardware license key: 9050130</b></p> <p>CMX is accessed by connecting dongle to the PC USB port.</p> <p><b>Software license key: 9050245</b></p> <p>The software license key is installed to the server along with the CMX license. It is preconfigured to allow the correct amount of simultaneous users (based on the amount of licenses the customer has bought).</p>
<b>Requirements</b>	<p><b>Hardware license key</b></p> <p>Available USB Port. Only available for CMX PRO.</p> <p><b>Software license key</b></p> <p>Only available for CMX PRO FS and CMX ENTERPRISE. Price per installation.</p>

# Maintenance inspection

← Checklist, IEC60079-17, Table 2 Test positi...
⋮

DESCRIPTION
CHECKLIST
DETAILS

Description

*i* Test position 2
 
▼ MORE INFORMATION

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0

Passed

0

Failed

0

Skipped

32

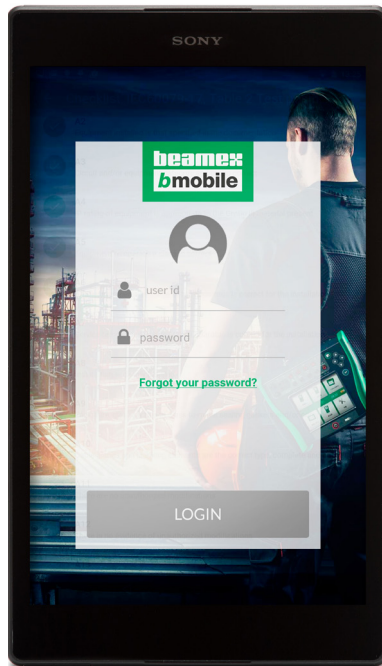
Open

Progress (0/32)

START >

MAINTENANCE INSPECTION	
<b>Order code</b>	9050256
<b>Description</b>	For the scheduling, performing and documenting of; preventive maintenance, safety systems, hazardous area installation inspections, among many others.  Maintenance inspections are created and maintained in CMX and the inspections are recorded on mobile devices.
<b>Typical applications</b>	<ul style="list-style-type: none"> <li>Interlock checks.</li> <li>Safety system inspections.</li> <li>Hazardous area inspections (templates included for IEC60079-17 standard).</li> <li>Any regulated testing.</li> <li>Preventive maintenance checks.</li> <li>HVAC inspections.</li> <li>Building rounds.</li> <li>Fire extinguishers.</li> <li>Exit doors &amp; lighting.</li> <li>Elevators/lifts.</li> <li>Motors.</li> <li>Pumps.</li> <li>Valves.</li> <li>Instruments.</li> <li>Lubrication.</li> <li>Oil levels.</li> <li>Etc.</li> <li>And any kind of test that has a Pass / Fail result.</li> </ul>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>Maintenance inspection option in CMX.</li> <li>CMX version 2.11.</li> <li>bMobile communication option in CMX.</li> </ul>

# bMobile communication option



## bMOBILE COMMUNICATION OPTION

**Order code** 9050259

**Description**

- bMobile is a tablet application, which requires a communication option to CMX.
- bMobile is included in CMX 2.12.1 and later but can be added to earlier versions starting 2.11
- bMobile is a free of charge app which can be downloaded for android and windows (Play Store and Microsoft Store).
- bMobile is used to document calibrations and maintenance checks offline.

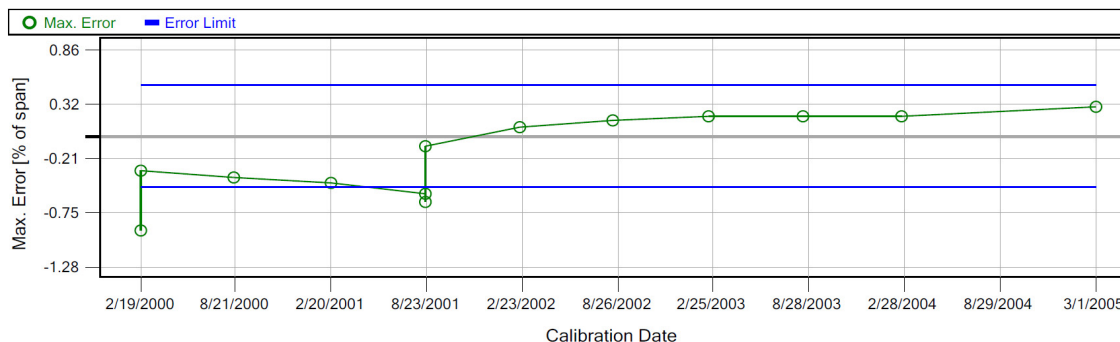
**Supported instrument types:**

- Conventional instruments.
- Switches.
- Weighing instruments (requires weighing instrument option in CMX).
- Checklists (requires maintenance inspection option in CMX).
- User authentication. Complies with FDA, MHRA, GMP Data Integrity requirements (requires mobile security plus option in CMX).

**Requirements:**

- Supported platforms: Windows 10 or Android operating system, version 5.1 or later.
- Recommended minimum screen size 4".
- CMX 2.11.

# History trend



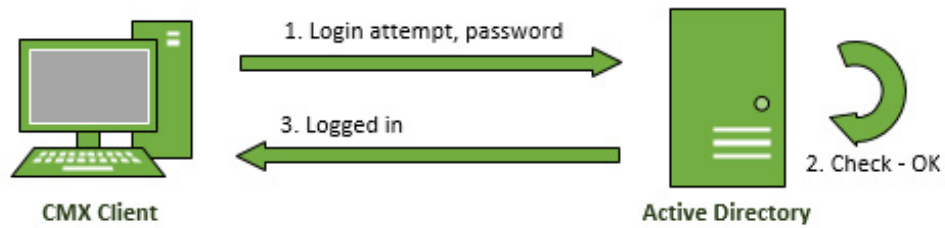
HISTORY TREND	
<b>Order code</b>	9050230
<b>Description</b>	The system automatically shows the history trend for each calibration event that has been stored in the database for the selected instrument.
<b>Key Features</b>	History trend creates a graph with the following parameters: Max Error, Max Hysteresis, Max NonLinearity, Avg. Zero Error and Avg. Span Error.
<b>Requirements</b>	CMX.

# Mobile security plus option

MOBILE SECURITY PLUS OPTION	
<b>Order code</b>	9050258
<b>Description</b>	Mobile Security Plus is a solution, which ensures the integrity of calibration data throughout the Beamex ICS solution.
<b>Supported Beamex products:</b>	<ul style="list-style-type: none"> <li>• MC6, MC6-Ex and MC6 workstation calibrators.</li> <li>• bMobile 2.0.</li> <li>• Business Bridge.</li> </ul>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>• Mobile Security Plus option requires CMX version 2.11.</li> <li>• Mobile Security Plus option requires MC6-series calibrators.</li> <li>• Calibrator software version 1.80 or later.</li> <li>• Business Bridge v1.30 or later.</li> </ul>



# LDAP



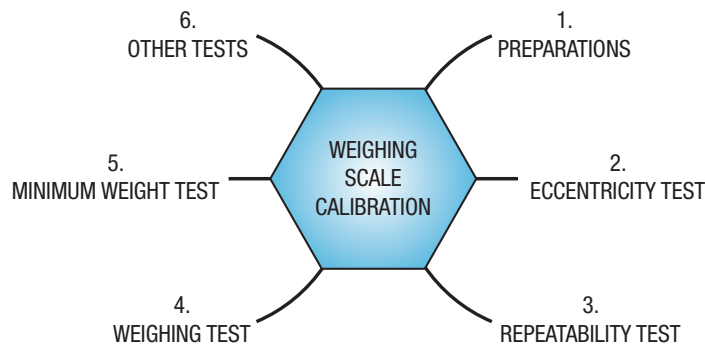
LDAP	
<b>Order code</b>	9050255
<b>Description</b>	<p>Lightweight Directory Access Protocol (LDAP) is used to authenticate CMX users by using the corporate network account (Active Directory).</p> <p>In practice, this means that CMX users will login to CMX with their Windows login and password.</p> <p>A user account with the same login must be created in CMX. The password will be checked against the network password. All permissions will still be maintained in CMX.</p>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>• Active Directory on company network.</li> <li>• CMX Client on company domain.</li> </ul>

# Change management including audit trail and electronic signature

Signatures							
AT	Version	Status	Approved	Time	ID	Name	
<a href="#">1502</a>	9	Approved	X	18.1.2007 13:18:40	SK	Sami Koskinen	Sign...
<a href="#">1202</a>	8	Approved	X	2.6.2005 13:52:00	CK	Clark Kent	
<a href="#">985</a>	7	Approved	X	23.5.2005 16:42:19	CK	Clark Kent	

CHANGE MANAGEMENT INCLUDING AUDIT TRAIL AND ELECTRONIC SIGNATURE	
<b>Order code</b>	9050270
<b>Description</b>	<p>'Change management' monitors and records modifications in CMX by creating an audit trail. The changes can be viewed in the audit trail table or in the item/instrument, in which the change has been done. All changes can be approved in the system by a person with sufficient user rights in CMX. The user is identified by an electronic signature, which requires the user to type in an ID and password for the system.</p>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>• CMX.</li> </ul>

# Weighing instrument support



WEIGHING INSTRUMENT SUPPORT	
<b>Order code</b>	9050265
<b>Description</b>	<p>Weighing instrument calibration option.</p> <p>The CMX weighing instrument calibration feature includes a possibility to add weight, weight set and weighing instrument calibrations to CMX. Weighing instruments can then be calibrated by using either the manual entry window or by using the bMobile 2 application.</p> <p>Support for:</p> <ul style="list-style-type: none"> <li>• Accuracy classes from HB-44 I to HB-44III</li> <li>• Accuracy classes from OIML I to OIML III</li> <li>• Customized accuracy classes</li> <li>• Partial weighing ranges from 1 to 4 ranges</li> </ul>
<b>Data entering methods:</b>	<ul style="list-style-type: none"> <li>• Manual entry in CMX software.</li> <li>• Automatic entry through the bMobile application on a mobile device (for Android 5.1 or newer and Windows 10)</li> </ul>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>• CMX.</li> </ul>

# Fluke 743b / 744 communication driver

FLUKE 743B / 744 COMMUNICATION DRIVER	
<b>Order code</b>	9050290
<b>Description</b>	<ul style="list-style-type: none"> <li>• Communication driver to CMX. Driver no longer developed.</li> </ul>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>• CMX.</li> <li>• May require communication option in the calibrator.</li> <li>• Requires 32 bit Windows operating system. Not supported in 64bit Microsoft® Windows.</li> </ul>

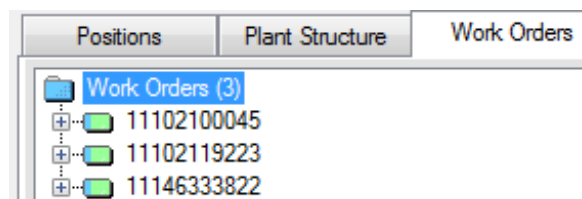
# GE Druck DPI605 / 615 / TRX-II communication driver

GE DRUCK DPI605 / 615 / TRX-II COMMUNICATION DRIVER	
<b>Order code</b>	9050280
<b>Description</b>	<ul style="list-style-type: none"> <li>• Communication driver to CMX. Driver no longer developed.</li> </ul>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>• CMX.</li> <li>• May require communication option in the calibrator.</li> <li>• Requires 32 bit Windows operating system. Not supported in 64bit Microsoft® Windows.</li> </ul>

# Configurable user interface and report design

CONFIGURABLE USER INTERFACE AND REPORT DESIGN	
<b>Order code</b>	9050365 + 9050250
<b>Description</b>	<ul style="list-style-type: none"> <li>The configurable user interface option can be used to rename CMX field names. Some hidden fields can be revealed and some fields can be made invisible.</li> <li>The report design option can be used to create and modify calibration certificates, reports and labels.</li> </ul>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>CMX.</li> </ul>

# Enhanced work order handling



ENHANCED WORK ORDER HANDLING	
<b>Order code</b>	9050257
<b>Description</b>	<p>Enhanced work order handling introduces a new view in CMX called work orders. This view is used to display all active work orders that have been received from the asset management system via Business Bridge.</p> <p>Some of the included functionalities:</p> <ul style="list-style-type: none"> <li>Work order start date.</li> <li>Work order end date.</li> <li>Emergency calibration.</li> <li>Work order statuses (open, in progress, completed, cancelled).</li> </ul>
<b>Typical Use Cases</b>	<p>Asset management systems often schedule work to be executed during a specific timeframe. With CMX Enhanced Work Order Handling this time frame can be sent to CMX for the calibration technicians to visualize as work order start and end dates.</p> <p>Typically, a calibration needs to be approved for it to be completed. With Enhanced Work Order Handling, it is possible to require approval for each calibration / work order before it is considered as completed. Cancelling work orders is also possible in CMX, with the Enhanced Work Order Handling option.</p>
<b>Requirements</b>	<ul style="list-style-type: none"> <li>CMX version 2.10 or newer.</li> <li>Business Bridge 1.2 or newer.</li> </ul>

# Software support services (SSA) for CMX Professional

## SOFTWARE SUPPORT SERVICES - SSA - FOR CMX PROFESSIONAL

### Description

#### Option 1: 9050350

- Software Service Agreement for 12 months (per license).
- Includes software updates and remote helpdesk support for the manufacturer's standard software products (see below).

#### Option 2: 9050357

- Software Maintenance Agreement for 12 months (per license).
- Includes software updates for the Manufacturer's standard software products (see below).

#### Option 3: 9050358

- Software Helpdesk Agreement for 12 months (per license).
- Includes remote helpdesk support for the Manufacturer's standard software products (see below).

### SOFTWARE UPDATES FOR THE MANUFACTURER'S STANDARD SOFTWARE PRODUCTS

New Software Versions and Software Revisions made available to the Customer, which may (i) substantially rectify Errors or other Defects in the then-current revision of the Software; (ii) improve performance of the Software in the specified operational environment; and (iii) contain other new and/or improved software functionality.

### REMOTE HELPDESK SUPPORT FOR THE MANUFACTURER'S STANDARD SOFTWARE PRODUCTS

The remote helpdesk is in standby and accessible by phone, fax or email in accordance with the service hours from Monday to Friday, 9 AM to 4 PM (the time zone in Manufacturer's domicile), excluding public holidays.

Support is available at minimum in English language.

The support service also includes error diagnostic services and the helpdesk will use reasonable efforts in aiming to repair errors.

### RENEWAL NOTIFICATION

Beamex will issue a renewal quotation one month before the expiration date of any current Agreement. Renewal of expired/terminated Software Service Agreement requires an order of version upgrade for all existing licences.

# Software support services (SSA) for CMX Enterprise

SOFTWARE SUPPORT SERVICES - SSA - FOR CMX ENTERPRISE

**Description**

**Option 1: 9050391**

- Software service agreement for 12 months (per license).
- Including Software updates and Remote helpdesk support for the Manufacturer's standard software products (see below).

**Option 2: 9050392**

- Software Maintenance agreement for 12 months (per license).
- Including Software updates for the Manufacturer's standard software products (see below).

**Option 3: 9050393**

- Software helpdesk for 12 months (per license).
- Including Remote helpdesk support for the Manufacturer's standard software products (see below).

SSA and SMA cover existing options on the customer's current CMX installation.

**SOFTWARE UPDATES FOR THE MANUFACTURER'S STANDARD SOFTWARE PRODUCTS**

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Support is available at minimum in English language.

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# CMX upgrade

CMX UPGRADE	
<b>Description</b>	<p>UPGRADES All upgrade prices are corresponding to the valid CMX price list.</p>
	<p><b>9050450 CMX upgrade from older versions</b> <span style="float: right;"><b>-10% (license to license)</b></span></p> <p>Note! Unlimited number of positions is not included! If upgrading from version 2.3 or older of CMX, support with database conversion needs to be added at additional cost. Please contact Beamex.</p>
	<p><b>9050450 CMX upgrade from 3 versions back</b> <span style="float: right;"><b>-25% (license to license)</b></span></p> <p>Note! Unlimited number of positions is not included!</p>
	<p><b>9050450 CMX upgrade from 2 versions back</b> <span style="float: right;"><b>-50% (license to license)</b></span></p> <p>Note! Unlimited number of positions is not included!</p>
	<p><b>9050450 CMX upgrade from previous version</b> <span style="float: right;"><b>-70% (license to license)</b></span></p> <p>Discount for corresponding number of existing CMX licenses and software options.</p>
	<p><b>9050120 CMX Light &gt; CMX Professional</b> <span style="float: right;"><b>-35%</b></span></p> <p>Discount for corresponding number of existing CMX licenses. Note! Available only for the latest version of CMX Light!</p>
	<p><b>9050229 CMX Professional &gt; CMX Professional FS</b> <span style="float: right;"><b>ASK Beamex (per license)</b></span></p> <p>Note! A new license key will be supplied, and the old license key(s) must be returned to Beamex.</p>
	<p><b>ADDITIONAL LICENSE(S) FOR CUSTOMERS WITH AN EXISTING CMX PROFESSIONAL LICENSE</b></p> <p><b>9050120 CMX Professional user license</b></p> <p><b>9050229 CMX Professional floating server license</b></p>
	<ul style="list-style-type: none"> <li>• License prices and discounts are corresponding to the total number of existing CMX licenses.</li> <li>• Additional software option(s) for existing CMX</li> <li>• The prices and discounts for the CMX Professional software options correspond to the total number of existing CMX licenses.</li> </ul>

# CMX Bulk Discount

CMX BULK DISCOUNT	
<b>Description</b>	Bulk discount for new licenses and additional software options *)
	<ul style="list-style-type: none"><li>• Discount for 2 to 4 new licenses and additional software options -15%</li><li>• Discount for 5 to 9 new licenses and additional software options -25%</li><li>• Discount for 10 and upwards new licenses and additional software options -35%</li></ul>
	*) Note! Bulk discount is not applicable for upgrades from earlier CMX versions.
	In order to qualify for bulk discounts, all licenses need to be ordered under the same PO and delivered as one package.