

## ***CodeMeter 4.20a***

### **Release Date**

2010-July-02

### **Operating Systems**

Windows, Mac OS X, Linux

### **Info**

FB8812: CodeMeterAct, Win2000: CodeMeterAct licenses again will be installed and will run on Windows 2000 machines.

FB9374: CodeMeter Installer, Linux: SuSE 9.1 through SuSE 9.3 will no longer be supported starting with CodeMeter 4.20a.

### **Bugfixes**

FB9422: CodeMeterAct: The simultaneously use of the PIOs Unit Counter and User Period for CodeMeterAct licenses on encrypting produced error 70.

FB9298: CodeMeterAct, Windows: Due to file system problems not to be remedied by using chkdsk.exe on some machines CodeMeterAct licenses did not work. This affected all licenses on this machine, and could not be remedied by re-activation.

FB9157: CodeMeter Installer: The CodeMeter Runtime installation could abort when on operating systems Windows Vista or newer the firewall service was not running.

FB9423: CodeMeter Installer: The .NET Installer WibuCmNET.msi in Version 4.20 required the .NET Framework 3.5. However, the .NET Framework 2.0 is sufficient.

FB8866: CodeMeter Installer: On uninstalling the CodeMeter service now SuSE-specific "\*.depend" files are better handled. Previously a deadlock could occur on computer shutdown since the SuSE-specific scripts stucked after deleting CodeMeter.

FB8923: CodeMeter Installer: After installing the CodeMeter Runtime on openSUSE 11.2 the CodeMeter service did not automatically start.

FB9155: CodeMeter Installer: The check whether the service "winmgmt" runs has been improved.

FB9024: CodeMeter Installer: A re-installation of the CodeMeter Runtime Version 4.20 resulted in a stopping the CodeMeter service.

FB9131: CodeMeter License Server: Importing files using cmu or importing vendor-specific code eventually resulted in a crash.

FB9059: CodeMeter License Server, Mac: The server search (broadcast) partly did not work in the case an explicit IP address was specified.

FB9013: WIBU Shell Extension: The Windows Explorer extension partly shows incorrect languages.

FB9072: WIBU Shell Extension: The context menu of the \*.WibuCmRaC file holds typing errors.

FB8930: CodeMeter WebAdmin: The display of a CodeMeterAct license in the WebAdmin from a remote machine returned a JavaScript error message.

FB8946: CodeMeter WebAdmin: In the WebAdmin the Product Item Option description did not display for the user data.

FB8973:cmu, Windows: The option "--detect-proxy" not always returned the manually set proxy.

## ***CodeMeter 4.20***

### **Release Date**

2010-May-03

### **Operating Systems**

Windows, Mac OS X, Linux

### **New Features**

FB7618: CodeMeter: Russian localization has been integrated into the CodeMeter Runtime.

FB3403: CodeMeterAct: Linux 64-bit is supported.

FB3682: CodeMeterAct: Function access to the virtual CmStick, e.g. CmCrypt has been considerably accelerated.

FB8018: Runtime Installer, Windows: For the 64-bit version the Runtime Version information is additionally inserted in  
HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\WIBU-SYSTEMS\CodeMeter.

FB8350: Runtime Installer, Windows: On installation a check for an existing TCP/IP service is performed. In the case the service is found, the service dependency is registered in the CodeMeter service.

FB7560: Runtime Installer, Windows: On installation a check for an existing winmgmt service. In the case the service is found, the service dependency is registered in the CodeMeter service.

FB7843: CodeMeter Installer: The new menu item "CodeMeter Command prompt" in Codemeter | Tools starts a cmd input in the user directory, extends the Path variable by the path to the Runtime/bin directory, and calls cmu32 -v.

FB7479: CodeMeter License Server, Windows: CodeMeter.exe now holds an external manifest, i.e. when omitting the manifest in the case of a mobile use CodeMeter.exe starts in quiet mode.

FB6787: CodeMeter License Server, Linux: CmCards/CF are identified in case they are used as root devices and are ext3 formatted.

FB4734 CodeMeter License Server, Mac OS X: For Mac OS X 10.6.2 and higher the CmCard/SD is supported by the internal Apple card reader, e.g. MacBook Pro, iMac.

FB8007: CodeMeter WebAdmin: WebAdmin buttons are deactivated in case of insufficient privileges.

FB6316 CodeMeter Library, Windows: The default load address of the WibuCm32.dll has been changed from 0x20000000 to 0x67600000.

## **Bugfixes**

FB8645: CodeMeter Installer: The Chinese translation has been intergrated in Wise.

FB6497: CodeMeter License Server: Logging of the CodeMeter License Server now is written every 10 seconds into the log file.

FB6637: CodeMeter License Server, Windows: The status management of the Windows service "CodeMeter.exe" has been improved.

FB7944: CodeMeter License Server: Information on borrowed licenses could get lost on restart of CodeMeter (server).

FB5838: CodeMeter License Server, Windows CE: The detection of CmSticks has been improved.

FB8143: CodeMeter License Server: In mobile mode the CmAct directory was created although in this mode the change of data on the computer is not allowed.

FB7398: CodeMeter License Server, Windows: Under Windows Vista and Windows 7 exceptions for the Windows Firewall are now registered in the public profile.

FB6961: CodeMeter License Server: A Terminal Server is no longer identified as virtual machine.

FB6871: CodeMeter License Server: The event log will now display again the correct remote IP address.

FB6085: CodeMeter License Server: When licenses are multiple allocated in case of several servers and the license option station share, in the future, the search for licenses will first seek already allocated licenses and use them.

FB6119: CodeMeter License Server: Improved time response on restarting the connection to a previously shut-down CodeMeter server.

FB5985: CodeMeter License Server: Fixing an error which occurred on importing a WibuCmRaU file created on a little endian machine to a big endian machine.

FB5598: CodeMeter License Server: The search of plugged-in drives will no longer cover the diskette drive.

FB8346: CodeMeter License Server: In case a binding to an explicitly specified address fails, following a waiting period a second try is performed to consider DHCP timeout problems.

FB8620: CodeMeter License Server: On permanent operation under Windows XP eventually a memory leak occurred which has been removed.

FB2338: CodeMeter License Server, Solaris: The Firmware update now works correct.

FB8083: CodeMeterAct: When a CodeMeterAct license was remote-updated the use required a CodeMeter restart (error 88).

FB7983: CodeMeter WebAdmin: Depending on the browser used and related settings some pages in the Japanese WebAdmin were not displayed.

FB8225: CodeMeter Control Center: The return button on the borrowing tab will no longer misleadingly grayed out.

FB8273: CodeMeter Control Center: A memory leak on using the SharedMemory modes has been removed.

FB6782: CodeMeter Control Center: Also in the case of many licenses/CmSticks in the future the CmStick list will display all licenses/CmSticks.

FB5499: CodeMeter Control Center: The CmStick status in the future will be properly displayed in all cases.

FB6083: CodeMeter Control Center: The context menu will be displayed also under Vista 64-bit.

FB6788: CodeMeter WebAdmin: When a CmAct licenses changed between status "activated" and "deactivated", the WebAdmin list of PIOs was empty until the next CodeMeter start.

FB7721: CodeMeter WebAdmin: Correction in the display of CmStick/M holding a flash memory larger than 2GB.

FB7759: CmDust: The language files of CodeMeterCC are now listed.

FB7969: CodeMeter WebAdmin: The detection of mobile operating systems) Windows Mobile) has been improved.

FB7970: CodeMeter WebAdmin, Windows CE: The display of the drive letter in the WebAdmin was incorrect.

FB6962: CmDust: Using ChunkSizeMode in future no warning will be issued.

FB6484: CmDust: Accessing an exclusively borrowed entry resulted in a crash.

FB8681: CmDust: Now also the values of the type REG\_MULTI\_SZ are now read from the Windows registry.

FB5948: cmu: The firmware update mode "cmu --firmware-update" will function again.

FB6466: cmu, Mac: The return of the local IP address of "cmu -k" under PPC Mac was incorrect.

FB8245: cmu: The command cmu --borrowlist returned a list where eventually some client licenses were missing.

## ***CodeMeter 4.10c***

### **Release Date**

2010-Jan-19

### **Operating Systems**

Windows, Mac OS X, Linux

## **New Features**

FB7495: Windows: The CodeMeter Runtime has been localized in Spanish.

FB7533: Windows: The Runtime Installer has been customized to the Spanish localization.

## **Bugfixes**

FB7397: Windows Vista, 7: A fix in the WibuCm32.dll re-enables CmAccess to work reliable on Windows 7 and Vista.

FB6816: CodeMeter Runtime Modules (CodeMeter.exe + WibuCm), Windows: When the CodeMeter Runtime Server was accessed immediately after starting, eventually crashes or other irregularities occurred.

FB6826: CodeMeter Runtime (CmAct): The programming of Usage Periods for a license longer than 49 days were not correctly supported.

FB7150: CodeMeter Runtime Modules (CodeMeter.exe + WibuCm), Windows: The version number in Kext is now correctly displayed.

FB7494: CodeMeter Runtime (CmTrigger), Linux64 bit: The file libWibuCmWeb64.so was missing under Linux 64-bit

FB7491: CodeMeter Runtime (CmTrigger), Linux64 bit: The Java plug-in for remote activation in the browser did not work.

FB7392: CodeMeter Runtime (CmAct): On using the binding scheme "SER" the installation-IDs differed for different PCs. Now the behaviour is correct, and allows the precalculation of activation codes.

FB7547: CodeMeter Runtime (general): The dates of the copyright information in the CodeMeter 'About' Box have been updated.

## ***CodeMeter 4.10b***

### **Release Date**

2009-Oct-19

### **Operating Systems**

Windows, Mac OS X, Linux

## **New Features**

FB3861: CodeMeter SD/CF-Cards are now also supported under Linux. Requirements are that the CodeMeter Licence Server (CodeMeterLin) runs with root privileges or has read/write access to the respective /dev/sg\* /dev/sd\* device. Currently, hotplug mechanisms for SD/CF-Cards are not implemented.

FB5663: CodeMeter Control Center: By default, the entry for deleting a CodeMeterAct license now is created in profiling allowing for a simple activation. In the case of an installed SDK, the delete-button is active, otherwise not active.

## **Bugfixes**

FB4765: CodeMeter License Server, Mac OS X: The CodeMeter License Server eventually crashed when on disconnecting a CmStick it was simultaneously accessed. Therefore the "Eject" button was removed from the CodeMeter Control Center. A CmStick now must be disconnected by using the Finder, or desktop functions.

FB5956: CodeMeterAct: After a PC crash a license eventually became invalid and had to be reactivated.

FB6082: CodeMeter Installer: Display errors in the French installation programs have been removed.

FB6004: CodeMeter Control Center: In the case one tries to import a file while the CodeMeter Service is stopped, now an instant error message displays and a long waiting time is avoided.

FB6132: CodeMeter Control Center: The Japanese localization has been completed.

FB5818, FB5917: CodeMeter WebAdmin: The Chinese localization has been completed.

## ***CodeMeter 4.10a***

### **Release Date**

2009-August-31

### **Operating Systems**

Windows, Win CE, Mac OS X

### **Bugfixes**

FB4318: On installation the proxy settings are automatically completed in WebAdmin. This to provide for accesses to the time server or for firmware updates without manual configuration.

FB5595: CodeMeter License Server: In the case that the network cable is plugged off, CodeMeter stays active and stable even when licenses are searched in the network.

FB5506: CodeMeter License Server: In rare cases the search for network licenses blocked the local CodeMeter License Server over a lengthy period if no additional network server was available.

FB5530: CodeMeter License Server: Under certain circumstances CodeMeter License Server crashed on calling CmGetBoxes().

FB5596: CodeMeter License Server: In license borrowing the server name is saved to the Client CmStick. In some network configuration settings this results in problems. Now WebAdmin allows for the setting that the IP address is saved instead of the server name.

FB5610: CodeMeter WebAdmin: The usability of license borrowing in WebAdmin has been improved.

FB4833: CodeMeter Control Center: The QT library has been updated in order to prevent a sporadically occurring CodeMeter Control Center bug on OS X.

FB5611: CodeMeter Control Center: The French localization of CodeMeter Control Center has been repaired.

FB5423: CodeMeter Control Center: The events were not displayed as long after the start no CmStick was connected.

FB5500: .NET API: Now CmGetRemoteContextBuffer / CmSetRemoteUpdateBuffer also work with CodeMeterAct

FB5647: .NET API: The policy.3.31.WibuCmNET.dll file is correctly installed.

FB5496: CmCard/CF support for WinCE 5.0 and WinCE 6.0 if the CmCard/CF is connected via an internal ATA/SATA interface.

FB5788: Mac OS X: During installation of kernel extension kext.3G an error occurred. It worked properly but the installation was marked as erroneous.

FB5790: Mac OS X: The kernel extension kext.3G can now also be used on Mac OS 10.6 together with 64bit kernel K64 on Xserve computers.

FB5791: Mac OS X: The kernel extension kext.5G can now also be used on Mac OS 10.6 together with 64bit kernel K64 Xserve and Mac Pro computers.

FB5800: Mac OS X: On Mac OS 10.6 the CodeMeter control panel supports also 64bit.

## ***CodeMeter 4.10***

### **Release Date**

2009-August-06

### **New Features**

FB3860, FB3861, FB3862: The new hardware form factors CmCard/CF (CF-Card) and CmCard/SD (SD-Card) are now supported by the operating systems Windows, Windows CE and Linux.

FB5378: CodeMeter License Server: The performance in case of invalid entries in the server search list has been improved.

FB4821: CodeMeter Control Center: The new button "Revalidate license" has been added. It allows to start a re-interpretation of the binding schemes in case of deactivated CodeMeterAct licenses. This is useful in particular when using the binding scheme "Custom".

FB4082: cmu: License Borrowing now is also available in the commandline tool cmu.

FB4067: cmu: The functionality CmDustConsole.exe has been transferred to the commandline tool cmu. The option "--cmdust" allows to query a variety of information. This functionality is now available for all operating systems supported by CodeMeter.

FB3112: cmu: The import of all CodeMeterAct file types (empty licence container, remote updates and Firm Item templates) and the creation of CodeMeterAct remote context files is now supported.

FB3731: cmu: The option "-v" to read out version information is now also available under Windows.

## **Information**

FB3646: The CodeMeter functionality is not available when using Kext5G, when the user is not logged in, or when the CmStick is "ejected". Thus Kext5G is not suited for operation on a server. Install Kext3G instead.

## **Bugfixes**

FB3526: CodeMeter License Server: The exit time has been improved.

FB5094: CodeMeter License Server: A remote update of a license now also works with borrowed licenses as expected.

FB4086: CodeMeter License Server: The return of a borrowed license from a different PC eventually did not work.

FB5288: CodeMeter License Server: Under Mac now in all cases license borrowing entries are realized via profiling.

FB4736: CodeMeter License Server: In the case expired borrowing licenses were re-borrowed and then returned error 200 was issued.

FB5152: CodeMeter License Server: Problems with deactivated CmSticks on PCC Macs have been corrected.

FB5144: CodeMeter License Server: Enabling on Big Endian Machines (Mac PPC) partly did not work correctly.

FB4145: CodeMeterAct: In the case of CodeMeterAct licenses activated usage periods were set to 0 when CodeMeter License Server was restarted.

FB4751: CodeMeterAct: Improved error message when attempting to use CodeMeterAct on PCs which do not support CodeMeterAct (currently Lin/64bit, Mac/PPC, Solaris, WinCE)

FB5166: CodeMeterAct: An error was fixed which in some cases lead to the incorrect function of the binding scheme [D]isk.

FB4856: WebAdmin: The restore function of CodeMeter Backup now supports all established browser.

FB4244: WebAdmin: Display errors in Japanese have been fixed.

FB4627: CodeMeter Control Center: License borrowing entires of the Borrowing tab are now refreshed, when the refresh button is clicked, or the Borrowing tab is selected.

FB5244: CodeMeter Control Center: Starting CodeMeter Control Center also started CodeMeter License Server as a service despite of a local configuration via CodeMeter.ini.

FB3683: CodeMeter Control Center: Now in the communication type Shared Memory WebAdmin and the related menu item are not visible.

FB4444: CmConfigDisk: The duration to build up the list of all available CmSticks has been considerably reduced.

FB4363, FB4430: CmConfigDisk now is also able to configure CmSticks of the new generation with serial numbers 2-xxxxxx as "Removable Device".

FB5127: CmConfigDisk now also runs under a non-privileged user.

## ***CodeMeter 4.01***

### **Release Date**

2009-April-09

### **New Features**

FB3006: On a Mac, now using KEXT 5G with a CmStick/M simultaneous access to the DRM part and the flash memory is possible.

FB3061: Super floppy support with Kext.5G detection on a Mac is available.

FB8: In future WebAdmin will display LicenseBorrowing licenses.

FB15: In case a false WibuCmRau file is imported, now a more detailed error message will be issued.

FB3613: CmDust: display of License Borrow information.

FB101: CodeMeter License Server creates a new log file when the old log file size reaches a certain size.

FB10: Protected Windows applications now run under Linux using Wine ProgramLoader.

### **Bugfixes**

FB3645: The Kernel extension of the 5th Generation (Kext.5G) now allows the simultaneous access to security functions and the flash memory. CmSticks detection requires that a user is logged in. For operating as license server without user logon Kext.3G is to be used, this allows the access to the security functions even without logon.

FB3261: Now update of CmAct licenses by double-cklicking in the Explorer works.

FB3010: In the allocation order of CM/CmAct licenses earlier expired TimePin Enabling Blocks were not considered.

FB3022: CodeMeter now intermediately saves results of a network search for a short time.

FB3065: Explicit TCP/IP Binding to Mac now works.

## ***CodeMeter 4.00a***

### **Release Date**

Windows: 2008-Dec-19

### **All Operating Systems**

- CodeMeter / Java
  - Bugfix #1356 – using method CodeMeter.cmDecryptPioData() the result was not transferred.
- WebAdmin / Japanese
  - Bugfix #1381 - page 'content' held wrong characters on using the Internet Explorer.
- CodeMeterCC / French
  - Translation improved.

### **Windows**

- CodeMeter Runtime Server
  - Bugfix #1363 - Import of a CmAct activation file into a FAT file system returned error 264.
- CodeMeter DLL (WibuCm32.dll)
  - Bugfix #1372 – Despite existing CodeMeter.ini file data was nevertheless written to the registry.
- CmRmtAct[32|64].dll
  - Bugfix #1340 – On creation of a context file from several CmSticks using the shell extension the file at times held only a single CmStick entry.
  - Bugfix #1376 - CmRmtAct.dll on error exception always returned error 0.

## ***CodeMeter 4.00***

### **Release Date**

2008-Dec-02

### **All operating systems**

- CodeMeter Runtime Server

- integration of the software-based copy protection system called CodeMeterAct
- support of the new CmStick (Release 2008-Oct-28) with license memory more than 64 KB
- improvement of USB communication with the CmStick, especially in exception handling at bus level
- improvements in exiting CodeMeter.exe
- bugfixing of two memory gaps
- improvements related to CmStick detection and hotplug
- CodeMeterCC
  - new graphical user interface (GUI) with adjustments for CodeMeterAct
  - redesign of GUI to achieve better usability and clearness
  - CmFAS including support for activating CodeMeterAct licenses
  - support of import and drag & drop of files (CodeMeter license files)
  - improvement of "eject" CmStick function under Windows
  - new function under Windows for mobile-LastExit handling (UseMobileHandling)
  - improvement of firmware updating process and support of new CmSticks (Release 2008-Oct-28)
  - enhancement of output scope of the event log
- cmu
  - enhanced output on listing CmStick contents
  - bugfixing for firmware update related to the network proxy
- Bugfixes
  - 900, 1027, 1030, 1042, 1044, 1094, 1123, 1124, 1125, 1127, 1136, 1152, 1067, 1068, 1172, 1174, 1205, 1228, 1245
- WebAdmin
  - revised, in particular improved language support and internationalization
  - enhancements in support of CodeMeterAct licenses
  - asteriks on "start as server" removed – the current CodeMeter does not require a restart
  - bugfix in CmTalk test page: in case the ProxyPort was void, the page did not work (JavaScript problem)
- WibuCmNET
  - bugfixes
  - new, easy-to-use interfaces
  - CodeMeterAct specific classes and methods

## Windows

- Installer
  - user help in separate merge module, and as an option able for switch deactivation
- CodeMeterCC

- Bugfixing of screensaver and CardSpace conflicts

## **Mac**

- revised CodeMeter Uninstaller, especially support for CodeMeterAct licenses and language support ger/fr
- added CodeMeter applet for system control for central configuration
- improved Launchd-support to start CodeMeter as a system service
- enhanced cmu for improved output of version information on installed CodeMeter files
- supporting of Snow Leopard (Build 10A190)

## **Linux**

- packages exempted from dependency to libstdc++
- special packages for cc4 vs. gcc3 support are now omitted, the current installation packages now support both
- 64bit installation packages now include 32bit support and consider the directories /usr/lib and /usr/lib32
- support of current distributions, such as, Ubuntu 8.04, Fedora Core 9 etc.
- some small improvements for supporting 64bit distributions, in particular by reduced system dependencies
- adjusted USB hotplug rules for SuSE 11.x
- bugfixing especially for SLES 10/64bit on starting the daemon after reboot and coldplug
- enhanced cmu for improved output of version information on installed CodeMeter files

## ***CodeMeter 3.30b***

### **Release Date**

2008-Jul-11

### **All Platforms**

- CodeMeter Server
  - Bugfix #1123: A subsystem access handle pointed to a wrong subsystem, if CodeMeter itself ran as network server.
  - Bugfix #1124: If the server name was given when calling CmAccess2(), the access didn't work.
  - Bugfix #1127: The server search list was internally always sorted according to IP addresses.
  - Bugfix #1134: Disabled entries were ignored in the license allocation sequence using CmAccess().

## Linux

- Bugfix in cmu: correct display of version information on SuSE/64bit.

## Windows

- Installer
  - Bugfix #1099: Windows x64 installation failed with with error 2318, because WibuShellExt.dll could not be deleted.
  - Bugfix #1012: CodeMeter kept on running after uninstallation.
- CodeMeter DLL
  - Bugfix #1108: Autostart did not work with ApiCommunicationMode=2.
  - Bugfix #1136: Eliminated unnecessary waiting time of 10 seconds during startup of the CodeMeter service via CodeMeterCC.
- CmIdentity ActiveX Control
  - Bugfix #1129: Improved the error handling.
  - Bugfix #1075: Uninstaller did not delete the "CodeMeter" group from "Programs".

## ***CodeMeter 3.30a***

### **Release Date**

2008-Apr-06

### **All Platforms**

- CodeMeter Server
  - Bugfix: Proxy settings for a firmware update are now effective at once. No restart of CodeMeter is necessary.
- CodeMeterCC\_en.qm
  - Superfluous file 'CodeMeterCC\_en.qm' was removed from the Runtime\bin-folder.
- cmu
  - Bugfix output when using option '-k'.
  - Bugfix FieldUpdate with proxy is now working.
- WebAdmin
  - Options for changing the password where removed from all languages (CN/FR/JP/IT).
- CodeMeter JNI library (wibucmJNI)
  - Bugfix in CodeMeter.cmProgram(CMPROGRAM\_UPDATE\_PRODUCTITEM)

## Windows

- Runtime Installation
  - The runtime installer now stops, if an SDK is already installed. This circumvents incompatibilities with wrong security libs.

- CodeMeter.h
  - Was extended for the usage of static VC9 (Visual Studio 2008) libraries.
  - Support of Borland C/C++.
- CodeMeter Server
  - Support of the shared memory API communication mode (no TCP/IP).
- CodeMeter Control Center
  - Japanese language support was improved.

## ***CodeMeter 3.30***

### **Release Date**

2008-Feb-15

### **All Platforms**

- All user input may be given in **unicode** characters. For example the CodeMeter password or the CmStick name may contain Chinese characters.
- The **UDP waiting time** (the waiting time while searching for CodeMeter servers in the network) was optimized, the performance improved.
- Enabling and CM-FAS are now possible without usersite security modul.
- **CodeMeter Control Center** improvements:
  - For a firmware update the CodeMeter password is needed. But now the default password "CodeMeter" is tried automatically.
  - New features:
    - Eject the selected CmStick.
    - Let blink the selected CmStick.
    - CM-FAS (import of CmStick remote update files) with progress bar.
    - Tray icon with status text. It displays the number of plugged-in CmSticks.
    - Cancelling the CodeMeter service is only possible with sufficient rights.
    - Update certified time for all connected CmSticks.
- New **CodeMeter Universal Support Tool cmu** for all supported platforms.
  - List and test connected CmSticks.
  - Display the versions of installed CodeMeter components.
  - CM-FAS and Enabling can be performed from the command line and hence integrated into batch files.
  - Network search for CodeMeter servers.
  -
- Better detection and fixing of communications problems on the USB layer.

### **Windows**

- Improved support of CmSticks with flash memory and two partitions (dual lun).
- Better CmStick detection in a VMWare for CmSticks with or without flash memory. A field update cannot be performed in a VMWare.

## Linux

- CmSticks without flash memory are no longer mounted as disks on the desktop (no automount).
- CodeMeterLin now supports up to 1024 SCSI devices or CmSticks.
- Support of OpenSuSE 10.3, SLES10 64 bit and RHEL 4/5.1.
- New default directory for backups (/var/backups/CodeMeter).

## Mac

- Experimental support for CmSticks with flash memory. Therefore the options "Customize" and then "Kext.4G" have to be chosen during installation.

## ***CodeMeter 3.20.503 Mac***

### Release Date

2007-Sep-25

## Mac

- Two modes of CmStick communication:
  - Kernel-extended (kext ver.3G) - default, no mass storage support
  - Apple USB mass storage kext (only for 32-bit systems up to Tiger)
- FieldUpdate now available
- CodeMeter with new features, for instance:
  - change box name
  - FieldUpdate
  - bug fix in CM-FAS for serial numbers > 2<sup>31</sup>
  - enabling/disabling per CodeMeterCC
  - CodeMeterCC now localized (de/fr/it)
- Extended event logging in CodeMeterCC
- Improved communication between CodeMeterCC and CodeMeterMacX
- Improved USB communication
- Fixed stability problems
- Support of Mac OS X 10.5 (Tested on Leopard Beta Build 9A466)
- CodeMeterMacX support for UsagePeriod
- CmBoxPgm support for CM-FAS and UsagePeriod
- Includes now Java CM-API functions for the programming of CmSticks
- Native Uninstaller included in DMG package

## ***CodeMeter 3.21.500 Linux***

### **Release Date**

2007-Sep-09

### **Linux**

- Supports additional distributions: SLES 10, SuSE 10.2, Mandriva Spring 2007, Ubuntu 7.04, Fedora 7
  - full support for gcc3 and gcc4 based distributions
- Improved stability
- Bugfixes

## ***CodeMeter 3.20c***

### **Release Date**

2007-Aug-29

### **Windows**

- This release provides the following bug fixes:
  - On multi-processor systems exhaustive usage of CodeMeter Api calls could lead to a crash of WibuCmXX.dll.
  - If a server search list was configured an additional but incorrect server entry was added at the end. Depending on the system configuration this could lead to long timeouts.

## ***CodeMeter 3.20b***

### **Release Date**

2007-Jul-27

### **Windows**

- The CodeMeter API now also supports the programming of CmSticks under Java.
- This release provides a couple of bug fixes:
  - Under Vista right clicking a CmFAS file resulted in a crash of Windows explorer.
  - While upgrading from CodeMeter 3.10 to 3.20 the ShellExtension was not updated correctly.
  - An Error 103 occurred during longer intermissions of the communication.
  - The access to a CmStick in the rarely used FileIO mode did not work correctly under Windows Vista.

- In the CodeMeter JNI-library incompatible name changes in the CMAccess structure were undone.
- The API function CmCheckEvents did not work correctly under Vista.
- If a Firm Item was programmed and accessed simultaneously a crash of CodeMeter could happen.

## ***CodeMeter 3.20a***

### **Release Date**

2007-Mar-27

### **All Platforms**

- Bugfix CodeMeterCC: Application sometimes stopped if a disabled CM-Stick was plugged in
- For CodeMeterCC and CodeMeter the English translations were improved
- Improved CmApiHelp.chm (online help)

### **Windows**

- Improved language localizations for LicensorCenter and AxProtectorGui
- CodeMeter.exe now also deactivates the firewall for CodeMeter on Windows XP x64
- CodeMeter.exe now correctly rebuilds the internal entry list, if a CM-Stick is enabled or disabled or if several temporary enabled CM-Sticks are plugged in
- Depending on the CM-Stick hardware used the 'Low Level Rescan' is no longer available for CM-Stick/M 1024/2048, because the hardware itself already provides a repair mechanism

### **Solaris**

- Service configuration improvements: Restarting of the CodeMeter service via 'svcadm refresh codemeter' works now

## ***CodeMeter 3.20***

### **Release Date**

2007-Mar-09

## All Platforms

- The Password Manager with new graphical user interface and various themes improves the usability
  - Automatic learning and filling of application dialogs (only Windows)
  - Support of the Mac OS X keychain via keychain bridge
  - Firefox plugin for Mac OS X and Linux
  - New design with tree view
  - Settings like position and coordinates of the main window are saved
  - Exception list for domains and processes can be modified
  - The preferred browser can be configured
  - Password Manager is now a separate product with its own installer on all platforms
- The CodeMeter ControlCenter now allows:
  - Selective hardware informations for a CM-Stick
  - Selective enabling/disabling of a CM-Stick
  - Modifying the CM-Stick name
  - CM-FAS Update
  - Update of a CM-Stick with new firmware
  - Enhanced language support: de/en/it/fr/ha/ja/zh
  - Multi user support, especially for fast user switch on Mac OS X
- Support of terminal server licences
- Improved Java support
- Java trigger supports transaction ID
- WebAdmin with multi user support
- Bug fix in access control list
- Support of usage period

## Windows

- Support of Windows Vista
- CodeMeter is started as service by default
- CodeMeter is separated into a service and a graphic user interface (CodeMeter ControlCenter)
- Improved SecuriKey-Lite support
- Improved Steganos-Safe support
- New AxProtector for .NET encrypts applications on a class/function base. This results in a higher security level and allows the usage of ActiveX, remoting or reflection. The version information and the application icon are taken from the original assembly. Executables (EXE) and DLLs are supported

## Linux

- Support of SuSE 10.2, Ubuntu 6.10, Fedora Core 6
- 64 Bit Platform is now supported via a native x86\_64 installer
- Improved udev support
- CodeMeter started as daemon by default
- Improved CM-Stick recognition when using a USB hub

**Mac OS X**

- Is shipped in version 3.0

**Sun Solaris**

- CodeMeter now supports Solaris 10 on SPARC processors. CodeMeter service, ControlCenter and Webadmin are supported. End user applications like the CM Password Manager are not supported yet