

# Installing *12d Model 15 C1s* and 12d Network CodeMeters

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# 1 A Guide to the Notes

These notes contain the information for:

(a) Installing the release version of 12d Model

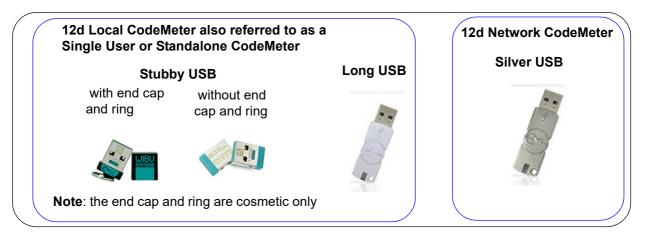
**12d Model** needs to be installed on each computer it is going to run on.

For notes on installing **12d** *Model* for the first time, or on a computer that is already running **12d** *Model*, go to <u>2 Installing 12d Model 15 Release Version on page 6</u>

(b) Setting up if you are using Network licences

By default when **12d Model** is installed it is set up for users with a **Local (single user** or **stand alone) CodeMeter** that only allows **12d Model** to be run on the computer with the **Local CodeMeter** attached to it. With a **Local CodeMeter**, if **12d Model** is to be run on another computer with that **Local CodeMeter** then the **Local CodeMeter** must be **moved** to the new computer. And **12d Model** will stop running on the computer that no longer has the Local CodeMeter attached to it.

To allow **12d Model** to run on a number of computers without having to move a **CodeMeter** to different computers, **12d Model** has network licences and for those cases, a **NETWORK CodeMeter** is used.



For notes on setting up a Network CodeMeter, go to 10 Network CodeMeters on page 51

# 2 Installing 12d Model 15 Release Version

### 2.1 Requirements for Installing & Running12d Model 15

Before Installing and running 12d Model 15, you need the following:

- (a) You must have Administrator privileges to install 12d Model
- (a) Approximately 2 Gigabytes of disc space is required for the installation to succeed.
- (b) A 12d Model CodeMeter or Wibu Lock for your computer

If **12d Model 15** is already running on your computer, the **CodeMeter** (or **Wibu**) lock you already have will work with the new version of **12d Model 15** once you have a nodes file for **12d Model 15**.

If **12d Model** has **NOT** been running on your computer then **DO NOT ATTACH THE LOCK TO YOUR COMPUTER** until after the CodeMeter/Wibu drivers have been installed as part of the installation procedure.

- (c) An email with the 12d Model 15 authorization file nodes.12d15n attached, or a folder with the 12d Model 15 authorization file nodes.12d15n or nodes.4d in it.
- (d) This document which has the internet links to the required executables and files
- (e) Access to the internet to download the required executables and files

Please check that you have all the above items before commencing the installation.

Also note that:

- (a) 12d Model 15 will not install on Windows XP or Windows Vista.
- (b) 12d Model 15 will not run with the brand Hardlock locks which were used for 12d Model 10 and earlier versions. They were either parallel locks or purple USB locks.

If you have a **12d Hardlock** lock, please contact your **12d Model Reseller** to obtain a replacement **CodeMeter** lock.

(c) 12d Field will only run with CodeMeter locks

If you are running **12d Field** and have a **12d Wibu or 12d Hardlock** lock, please contact your **12d Model Reseller** to obtain a replacement **CodeMeter**.

(d) A three-button mouse is essential to efficiently use **12d Model** on the desktop.

### 2.2 12d Model 15 is only 64 bit

Microsoft has a 64 bit Windows and an older 32 bit Windows operating system but **12d Model 15** is only being released for 64-bit Windows.

### 2.3 Quick or Detailed Installation Notes

For abbreviated instructions and links for Installing the Release Version of **12d Model**, go to <u>3</u> <u>Quick Installation Notes for 12d Model 15 on page 7</u>.

For **detailed instructions** and links for Installing the Release Version of **12d Model**, go to <u>4</u>. Detailed Notes for Installing 12d Model on page 12.

\*\*\*\*

Requirements for Installing & Running12d Model 15

### 3 Quick Installation Notes for 12d Model 15

This chapter contains abbreviated notes for Installing **12d Model 15**, and the links to download all the files required for the installation.

For more detailed notes on installing **12d Model**, see <u>4 Detailed Notes for Installing 12d Model</u> on page <u>12</u>.

Important Note: 12d Model 15 will not install on Windows XP or Vista.

### 3.1 Installing and Uninstalling

- (a) You need to be Administrator to install 12d Model 15 and CodeMeter and/or Wibu drivers
- (b) **12d Model 15** is **64-bit only** there is no 32-bit version.
- (c) You can have earlier versions of 12d Model, both 64-bit and a 32-bit, on your computer at the same time as 12d Model 15.
- (d) If **12d Model 15** is already installed on your computer then it will be replaced.

The **12d Model 15 Installer** checks for an existing matching **12d Model 15** and if one exists, it displays the version number and asks *if you want to Uninstall it.* 

If you say **No** then the **12d Model 15** Install will terminate, leaving the existing **12d Model 15**.

#### Important Note

The Uninstaller deletes everything in the Program Files\12d\12dmodel\15.00 folder so do not modify any of those files as they will be deleted by any future installs of 12d Model 15.

Any modification that you make to these files must go into User or User\_Lib.

(e) The Uninstaller will not delete any of the training material loaded into the folders **12d\15.0\training** and **12d\15.0\courses**.

The 12d Model 15 Installer will overwrite any files of the same name in those folders.

(f) Do not attach the CodeMeter or Wibu locks before installing the drivers

The **12d CodeMeter** or **12d Wibu** locks (dongles) must **NOT be attached** to the computer before the CodeMeter/Wibu drivers are installed (see <u>3.5 CodeMeter Drivers on page 8</u>).

### 3.2 Hardware Locks (Dongles) Supported

- (a) The brand Hardlock locks CAN NOT be used for 12d Model 15.
- (b) 12d Field is only available in 12d Model 15 for CodeMeters.
- (c) Network CodeMeters only support 12d Model 11 and above.
- (d) The older *Wibu* locks (non-CodeMeter) are supported for **12d Model 15** but are being phased out.

### 3.3 12d Model 15 and CodeMeter Drivers

The installer for **12d Model** installs both **12d Model15** and the appropriate **CodeMeter Drivers** which are needed to access the **12d Model** licences.

#### The 12d Model Install for 64 bit Window 10 - approximately 1 Gb

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/12d\_Model\_15\_C1s\_64\_Setup.exe For notes on installing the exe, see <u>4 Detailed Notes for Installing 12d Model on page 12</u>.

# 3.4 Certifying CodeMeters

A **CodeMeter** needs to be Certified **over the Internet** every two months. So you need to have access to the Internet for the first time you start up **12d Model** with a **CodeMeter** and then at lest every two months.

Once **12d Model** is installed, there is an environment variable **AUTO\_CERTIFY\_DONGLE\_4D** that can set so that **12d Model** automatically certifies the **CodeMeter** when required.

For notes in certify CodeMeters, see 5 Certifying CodeMeters on page 30.

Please contact your 12d Model Reseller if you have any problems Certifying CodeMeters.

### 3.5 CodeMeter Drivers

If you need to install the **CodeMeter** drivers separately to using the **12d Model** install, they can be installed with:

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/CodeMeterRuntime\_8\_20.exe

For notes on installing the CodeMeter Drivers, see <u>5.4 Installing the CodeMeter Drivers</u> <u>Separately on page 35</u>.

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### 3.6 For Users with 12d Model 14 Installed

### 3.6.1 Setting Up Your User Folder for 12d Model 15

The folder **User** contains the files that you have modified to replace those that **12d Model** installs in the folder **Set\_ups**. For example, your own *names.4d* or *linestyl.4d*.

So if you have files in your **User** folder in **12d Model 14**, you will probably also want to use many of them with **12d Model 15**.

In **12d Model 14**, the default place for **User** is **c:\12d\14.00\User** but it could also be pointed to by the environment variable **USER\_4D**.

For 12d Model 15, you need to create a new User folder.

You need to check each file in the **12d Model 14 User** folder and see if it needs to be modified for **12d Model 15**.

Once each file is OK, copy to it to the 12d Model 15 User folder

The default location for the **12d Model 14 User** folder is **c:\12d\14.00\User** but if the environment variable **USER\_4D** was used to point to a different location for the **User** folder in **12d Model 14** then you will probably want to use a non-standard **User** folder for **12d Model 15**. If that is the case then you will need to change **USER\_4D** in the **env.4d** file for **12d Model 15** to point to your **User** folder for **12d Model 15**.

### 3.6.2 Setting Up Your User\_Lib Folder for 12d Model 15

The folder *User\_Lib* contains your own library files and if you had files in a *User\_Lib* folder in **12d Model 14**, you will probably also want to use many of them with **12d Model 15**.

In **12d Model 14**, the default place for **User\_Lib** is **c:\12d\14.00\User\_Lib** but it could also be pointed to by the environment variable **USER\_LIB\_4D**.

For 12d Model 15, you need to create a new User\_Lib folder.

You need to check each file in the **12d Model 14 User\_Lib** folder and see if it needs to be modified for **12d Model 15**.

Once each file is OK, copy to it to the 12d Model 15 User\_Lib folder

The default location for the **12d Model 14 User\_Lib** folder is **c:\12d\14.00\User\_Lib** but if the environment variable **USER\_LIB\_4D** was used to point to a different location for the **User\_Lib** folder in **12d Model 14** then you will probably want to use a non-standard **User\_Lib** folder for **12d Model 15**. If that is the case then you will need to change **USER\_LIB\_4D** in the **env.4d file** for **12d Model 15** to point to your **User\_Lib** folder for **12d Model 15**.

### 3.6.3 Setting Up Your env.4d File for 12d Model 15

The file env.4d contains environment variables that are used to customise 12d Model.

An *env.4d* file is installed it the *Set\_Ups* folder when *12d Model* is installed and if a user wants to make any modifications to any of the environment variables in *env*.4d, then the modified *env*.4d file is placed in the *User* folder.

So if you have an *env.4d* file in your *User* folder in 12d *Model 14*, you will probably also want to use it 12d *Model 15*.

First check the *env.4d* file to see if any changes need to be made to it for *12d Model 15*.

The default location for your modified **env.4d** file in **12d Model 14** is in your **User** folder for **12d Model 14** so for **12d Model 15**, you need to copy the modified **env.4d** file to your **User** folder in **12d Model 15**.

For Users with 12d Model 14 Installed

### 3.6.4 Are You Using a 12d Network Lock?

If you are using a **12d Network Lock** (**CodeMeter** or **Wibu**) for **12d Model 15**, then the file **dongles.4d** which is in the **User** folder contains the information to tell **12d Model** that it has to search for a network lock, and possibly which computer the network lock is on.

So if you are using a **12d Network Lock** for **12d Model 14**, you will need to copy your **12d Model 14 dongles.4d** file to the **12d Model 15 User** folder.

# 3.7 Network CodeMeters

### 3.7.1 Using a 12d Network CodeMeter for the First Time

If you are setting up **12d Model** to use a **12d Network CodeMeter** for the first time, please read the section <u>10 Network CodeMeters on page 51</u>.

### 3.7.2 Updating Licenses in a Network CodeMeter

If you are modifying the virtual **12d Model** dongle within a Network CodeMeter (for example increasing the number of licenses), go to section <u>11.5 Updating Licenses in Network CodeMeters</u> on page <u>111</u>.

### 3.8 Documentation and What's New

The links for downloading documentation on **12d Model** are given in <u>6 Documentation on page 40</u>.

The links for downloading documentation, power points and videos on what is new in **12d Model 15** are given in <u>7 What's New in 12d Model 15 on page 45</u>.

This ends the Quick Installation notes for 12d Model 15.

The rest of the Chapters in this document are:

4 Detailed Notes for Installing 12d Model on page 12

5 Certifying CodeMeters on page 30

6 Documentation on page 40

7 What's New in 12d Model 15 on page 45

8 12d Model Training on page 46

9 Errors Installing and Authorising on page 47

10 Network CodeMeters on page 51

11 CodeMeter Control Center & WebAdmin on page 79

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# 4 Detailed Notes for Installing 12d Model

These are the complete notes are for installing the **Release** version of **12d Model 15** using CodeMeter locks. If you are using the older Wibu locks, please contact your Reseller for the installation notes.

#### A. Disk Space required for installing **12d Model 15**

Approximately 3 Gigabytes of disc space will be required for the installation to succeed.

Before installing 12d Model, it is best to reboot the computer.

Your login must have Administrator privileges.

#### B. Do not attach the 12d Model locks before installing dongle drivers

If you are installing **12d Model** on your computer for the first time, the **12d CodeMeter** lock must **NOT be attached** to the computer before the CodeMeter drivers are installed during the **12d Model** installation.

#### C. Installing

The following **Steps** will take you through the combined installation **12d Model** and the CodeMeter drivers, and the setting up of the **nodes.4d** file.

Continue to Step 1. Installing 12d Model 15 Release Version and CodeMeter Drivers on page 13.

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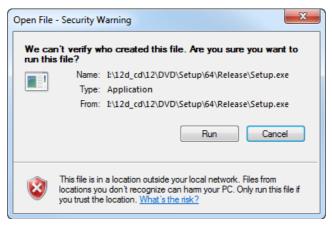
Step 1. Installing **12d Model 15** Release Version and CodeMeter Drivers The installer for **12d Model 15** is downloaded from the internet.

(a) Installing 12d Model and CodeMeter Drivers from the Downloaded Files: To download the installer for 12d Model, click on

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/12d\_Model\_15\_C1s\_64\_Setup.exe

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

Once the installer is downloaded, click on it (or run it) and the **12d Model** installation begins. You may get a message warning you about not being able to verify who created the file:



Click on **Run** so that the installation can begin.

The **12d Model 15** installation starts by unpacking the information in the installation exe and then the installation begins.

剩 61% Preparing installer	×
Please wait while the installer is prepared	
Cancel	

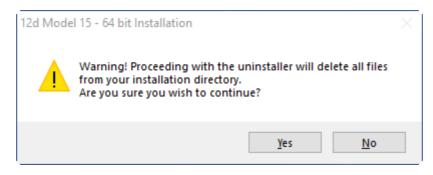
If the Installer detects there is an existing version **12d Model 15** already installed, you will be asked if the Installer can **uninstall the existing version**. Unless this is done, the installation can not proceed.

**Note:** The uninstall deletes everything in the **Program Files**\12d\12dmodel\15.00 folder so you should never modify any of those files.



Click on Yes to continue.

You then receive a Warning that the files will be deleted.



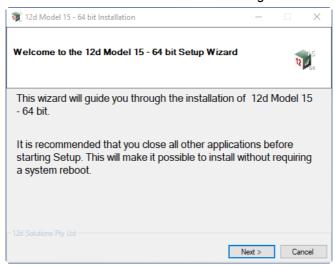
Click on Yes to continue.

All the files in the **Program Files** \12d\12dmodel\15.00 folder will then be deleted, and the 12d Model xx entry removed from the Windows Registry.

The installation of the new **12d Model** can now begin and the **Welcome** screen is displayed.

#### Welcome

Welcome message



Select Next > to continue with the installation

<del>77777</del>

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Software	∟icense	Aareem	ent
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12d Solutions license agreement

🗊 12d Model 15 - 64 bit Installation — 🗆 🗡	<		
12d Model End User License Acceptance Please read the terms and conditions of use for 12d Model. Installing this product is considered acceptance of this license.			
12D Solutions Pty Ltd	^		
Software License Agreement with Limited Warranty			
Important - Read Carefully Before Installation and Use This is a legal document and is an agreement between you (either an individual or an entity) and 12D Solutions Pty Ltd. By opening the sealed software package and/or by using the SOFTWARE, you agree to be bound by the terms of this Agreement. If you do not agree to the terms of this Agreement, promptly return the disk package and accompanying items (including any hardware items, printed materials and binders or other   Thave read and accepted the terms of this Software License Agreement			
Next > Cancel			

If you agree with the License conditions, tick on *I have read and accept the terms of the Software License Agreement*.

📬 12d Model 15 - 64 bit Installation — 🗆 >	<
12d Model End User License Acceptance         Please read the terms and conditions of use for 12d Model. Installing this product is considered acceptance of this license.	
12D Solutions Pty Ltd	^
Software License Agreement with Limited Warranty	
Important - Read Carefully Before Installation and Use This is a legal document and is an agreement between you (either an individual or an entity) and 12D Solutions Pty Ltd. By opening the sealed software package and/or by using the SOFTWARE, you agree to be bound by the terms of this Agreement. If you do not agree to the terms of this Agreement, promptly return the disk package and	
accompanying items (including any hardware items, printed materials and binders or other	~
I have read and accepted the terms of this Software License Agreement 12d Solutions Pty Ltd	
Next > Cancel	

Select *Next* > to continue with the installation

>

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#### Select Components

📆 12d Model 15 - 64 bit Installation	tick on <b>12d Model</b> to install <b>12d Model 15</b>
Select components	
Select the components you would like to install	(tick on <b>12d Model Update Service</b> to allow upgrades) to be installed without being Administrator
12d Model     12d Model     12d Model Updater Service     Courses and Training     CodeMeter Runtime     Microsoft Runtimes     Microsoft Visual C++ Redistributable 2005	tick on <b>Courses and Training</b> to install some training and test data tick on <b>CodeMeter Runtime</b> to install the CodeMeter drivers
<ul> <li>Microsoft Visual C++ Redistributable 2008</li> <li>Microsoft Visual C++ Redistributable 2010</li> <li>Microsoft Visual C++ Redistributable 2012</li> <li>Microsoft Visual C++ Redistributable 2013</li> <li>Microsoft Visual C++ Redistributable 2015 2</li> </ul>	tick on Microsoft Runtimes to install all the Microsoft Redistributables
- 12d Solutions Pty Ltd -	< Back Next > Cancel

Tick on 12d Model to install 12d Model.

Tick on **12d Model Updater Service** to allow the installation of **12d Model** upgrades without being logged in as **Administrator**.

Tick on Courses and Training to install training and test data.

Tick on CodeMeter Runtime to install the latest CodeMeter drivers.

Tick on *Microsoft Runtimes* if this is the first time you have installed **12d Model 15** on this computer, and it will tick on all the *Microsoft Visual C++ Redistributables*.

Select Next > to continue with the installation

#### Installation Location

💓 12d Model 15 - 64 bit	Installation		_		$\times$
Pick Installation L Select the location where		tion to be installed		12	45 4 84
Setup will install this folder, click Browse Installation location:	application in the fol and select another fo C:\Program Files\12d\	older.	o install in a	differer Brov	
	4GB ).48GB				
- 12a Solutions Pty Lta		< Back	Next >	Can	ncel

Continue with the default installation folder for the software:

C:\Program Files\12d\12dmodel\15.0

or click on *Browse* to browse to another folder for the installation Select *Next* > to continue with the installation

#### **User Area**

🕡 12d Model 15 - 64 bit Installation	-	
Select User Area Select the path where your User and User Lib folders will reside		12 de 24
Target: c:\12d\15.00		Browse
- 12d Solutions Pty Ltd	Next >	Cancel

Continue with the default folder for the **User Area** for the software: *c*:\12d\15.0

or click on *Browse* to browse to another folder for the User Area. Select *Next* > to continue with the installation

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Ready to Install

n 12d Model 15 - 64 bit Installation		-	
Performing installation			12 4 54
Press Install to begin the installation.			
	< Back	Install	Cancel

Click on Install to begin the actual installation

The software will be copied and installed onto the computer.

💓 12d Model 15 - 64 bit Installation		_		×
Performing installation			12	15 4 84
Extracting szip.dll Extracting szib.dll.dll Extracting TUFLOW_AD_iDP_w64.dll Extracting TUFLOW_AD_iSP_w64.dll Extracting TUFLOW_GPU_nDP_W64.dll Extracting TUFLOW_HPC_nDP_W64.dll Extracting TUFLOW_HPC_nDP_w64.dll Extracting TUFLOW_HPC_w64.dll Extracting TUFLOW_iSP_w64.exe Extracting TUFLOW_iSP_w64.exe Extracting TUFLOW_iSP_w64.exe				<ul> <li>×</li> </ul>
- 12d Solutions Pty Ltd	< Back	Install	Car	ncel

The Microsoft C++ Redistributables will be automatically installed

📆 12d M	odel 14 - 64 bit Installation	_		$\times$
	ning installation ዘ글 Microsoft Visual C++ 2012 Redistributable (x86) - 11.0	.51106 Setup		
	Microsoft Visual C++ Redistributable (x86)		51106	5
Extracting Extracting Extracting Extracting Extracting Extracting Extracting Extracting Extracting	Setup Progress Processing: Initializing			
Extracting			Can	icel
- 12d Solutio	ns Pty Ltd			·
	< Back	Install	Can	icel

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**DO NOT CLICK** on anything on the *Microsoft Redistributable* panels, especially *Cancel*. The panels will disappear by themselves.

#### Installation Complete

nstallation for 12d Model 15 - 64 bit completed	12	15 1 84
12d Model 15 - 64 bit has been installed on your computer.		
Click finish to close this setup wizard.		

End of the installation.

Select Finish to complete the installation

This completes the installation of the **12d Model** software and **CodeMeter** drivers.

If you have not used a CodeMeter hardware lock on the computer before, then the CodeMEter can now be attached to the computer. Go to <u>Step 2. Attach the Dongle on page 19</u>.

If you have already been using a CodeMeter hardware lock on the computer then go to <u>Step 3.</u> <u>SPECIAL NOTE ON CERTIFYING CODEMETERS on page 21</u>.

#### Step 2. Attach the Dongle

The 12d Model CodeMeter hardware lock can now be attached to the computer.

#### For USB dongles:

# Warning: you must have System Administration rights the first time you attach a USB dongle to any USB port:

When a USB dongle is attached for the first time to any USB port, Windows will detect that it is new hardware and needs to load the dongle drivers for that USB port - this will require System Administration rights.

Since the dongle drivers have already been loaded onto your computer, when the USB dongle is attached to a new USB port, it will be recognised as new hardware



and Windows should automatically install the correct dongle driver.

Found Ne	ew Hardware
$\diamond$	WIBU-BOX/RU
Installing	g

#### IMPORTANT NOTE IF THE CODEMETER IS NOT RECOGNISED:

If the CodeMeter hardware lock is not recognised you get the Found New Hardware screen

Found New Hardware \	Nizard
	Welcome to the Found New Hardware Wizard
	Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software?
	C Yes, this time only
	○ Yes, now and every time I connect a device
	○ No, not this time
	Click Next to continue.
	< Back Next > Cancel

please go to the section on how to find the Wibu drivers

**NOTE** - even though your CodeMeter is working on one USB port, if you try and attach the CodeMeter to a new USB port, the CodeMeter drivers will need to be installed for the new USB port. You will need System Administration rights to install the CodeMeter drivers on the **new** USB port.

For **12d Model** to run, the CodeMeter must be attached to the USB port at all times, otherwise **12d Model** will stop and ask you to save and exit.

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#### Step 3. SPECIAL NOTE ON CERTIFYING CODEMETERS

The **12d CodeMeters** must communicate over the Internet with a **Wibu Time Server** every two months to check that there is no problem with the **CodeMeter** that your **12d Model** license is using. This is called **Certifying** the **CodeMeter**.

For Certification to occur, a computer that can access the **CodeMeter** must also have access to the Internet to run the **Certification**.

One month before the end of the two month period, **12d Model** brings up the **Certify CodeMeter Dongle** panel which gives the number of days, minutes and seconds remaining until Certification is required.

If you are using a new CodeMeter from your **12d Model Reseller**, then it will usually come already Certified.

For more information on Certifying, see 5 Certifying CodeMeters on page 30.

12d Model will not function without an authorisation file called nodes.4d.

The final step is to install and test the *nodes* file. Go to <u>Step 4. Installing the Nodes.4d file on page 22</u>.

#### Step 4. Installing the *Nodes.4d* file

**12d Model** will not create new projects or open existing projects without an authorisation file called **nodes.4d** with valid information in it.

The information inside *nodes.4d* controls

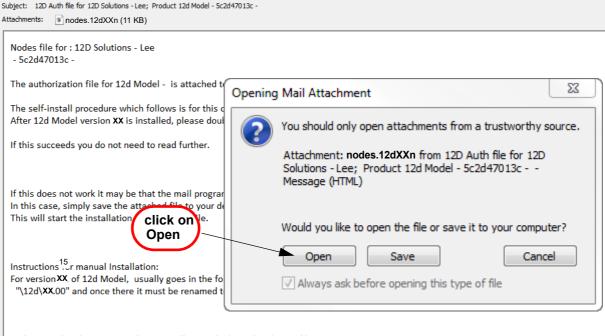
- (a) which 12d dongles are authorised to run 12d Model
- (b) what version of 12d Model will run for a dongle
- (c) what modules are authorised to run for a particular 12d dongle

To authorise **12d Model** to run with **your 12d dongles**, a file called **nodes.12dxxn** where **xx** is the **12d Model** version number, will have been emailed to you by your local **12d Model** Reseller.

For example, for 12d Model 15 the file will be called nodes.12d15n

Subject: 12D Auth file for 12D Solutions - Lee; Product 12d Model - 5c2d47013c -Attachments: Inodes.12dXXn (11 KB) Nodes file for : 12D Solutions - Lee - 5c2d47013c -The authorization file for 12d Model - is attached to this message. The self-install procedure which follows is for this one workstation and requires 12dmodel installed. After 12d Model version XX is installed, please double click on the file attachment [nodes.12dXXn] & to open it and 12d will guide you through. If this succeeds you do not need to read further. If this does not work it may be that the mail programme does not allow you to run attachments. In this case, simply save the attached file to your desktop and open (from the right-mouse menu or by double-click). This will start the installation for the nodes file. Instructions for manual Installation: For version XX of 12d Model, usually goes in the folder "\12d\XX.00" and once there it must be renamed to "nodes.4d" Codemeter dongles require a driver installation which can be obtained here http://www.wibu.com/en/downloads-user-software.html If the product is still not authorized after replacing or updating "nodes.4d" please contact 12D Solutions on (61)(02) 9970 7117 or email support@12d.com Installing **12d Model xx** on a computer sets up a Windows file association so that a nodes.12dxxn file is recognised and brings up the Install a 12d Model xx Nodes File panel which is used is to install a *nodes.4d* file in the correct location.

In the email, double click on the files *nodes.12dxxn* and the **Opening Mail Attachment** panel comes up.



Codemeter dongles require a driver installation which can be obtained here <u>http://www.wibu.com/en/downloads-user-software.html</u> If the product is still not authorized after replacing or updating "nodes.4d" please contact 12D Solutions on (61)(02) 9970 7117 or email support@12d.com

#### Click on **Open** and then the Install a 12d Model xx Nodes File panel appears

📆 Ins	tall a 12d N	Model XX Nodes File - 🗆 🗙	
Install	Manage		
Sourc	e:	C:\Users\fred.doofungles\AppData\Local\Microsoft\Windows\	
Opera	ation:	Prepend ~	
Destir	nation:	c:\12d\XX.00\nodes.4d	
		Install Cancel	

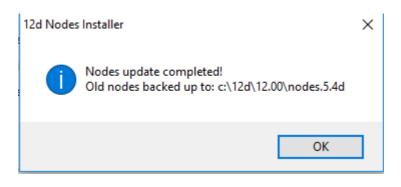
The choices for **Operation** are:

- **Prepend** if a **nodes.4d** file already exists, the information in the **nodes.12dXXn** file is added to the beginning of the existing nodes file. A backup up copy of the existing **nodes.4d** is created.
- **Replace** if a **nodes.4d** file already exists, it is replaced by a new **nodes.4d** file with the information in the **nodes.12dxxn** file in the new nodes file. A backup copy of the existing **nodes.4d** is created.
- **Append** if a **nodes.4d** file already exists, the information in the **nodes.12dxxn** file is added to the end of the existing nodes file. A backup copy of the existing **nodes.4d** is created.

Select Replace, Append or Prepend and then click Install.

The new/updated nodes.4d file is created in the Destination folder (default is C:\12d\xx.00) and

if a **nodes.4d** file already existed, a backup copy of it is made.



**Note** - if you don't have the file **nodes.12dxxn** attached to an email but instead have the file in a folder accessible from your computer, then you can do the following:

If there is a *nodes.12dxxn* file, double click on that file and the **Install a 12d Model Nodes File** panel should appear and you continue as per the instructions above.

If that doesn't work, start up **12d Model xx** and click on the **Nodes.4d** button at the bottom of the **Open a Recent Project** panel. This will also bring up the **Install a 12d Model Nodes File** panel and you can browse for the **nodes.12dxxn** file in the **Source** panel field. You can then continue as per the instructions above.

CONGRATULATIONS - 12d Model has now been successfully installed.

The folders and icons that are created in the installation are given in the sections:

4.1 Folders Created by the Installation on page 26

4.2 Icons Created by the Installation on page 28,

If **12d Model** did **not** install correctly and an **Authorization Error** panel came up, go to the section, <u>9 Errors Installing and Authorising on page 47</u>, of these notes.

To obtain documentation for 12d Model, go to 6 Documentation on page 40.

#### Expanded Important Note on Nodes.12d15n and Nodes.4d

The 12d Model 15 nodes.12d15n file will normally be emailed to you.

During the installation of **12d Model 15**, an association is created for files ending in **.12d15n** so after the installation, opening the **nodes.12d15n** on the email will bring up the **Install a 12d Model Nodes File** program which can copy the information in the *nodes.12d15n* file to the required area (normally *C*:\12d\15.00) and **nodes.4d** file.

If you do not have the **nodes.12d15n** attached to an email but instead have it in a folder and have installed **12d Model 15**, double clicking on the **nodes.12d15n** file will also bring up the **Install a 12d Model Nodes File** program which can copy the information in the **nodes.12d15n** file to the required area (normally C:\12d\15.00) and **nodes.4d** file.

Or if the 12d Model 15 icon is clicked on, the Open a Recent Project panel comes up and clicking

on the **Nodes** button will also bring up the **Install a 12d Model Nodes File** program which can copy the information in the *nodes.12d15n* file to the required area (normally C:\12d\15.00) and **nodes.4d** file

Please **do not change** the **name** of the created **nodes.4d** file. **12d Model** will only search for an authorization file called **nodes.4d**.

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# 4.1 Folders Created by the Installation

### 4.1.1 C:\Program Files\12d\12dmodel\15.00

The 12d Model installation loads the 12d Model software into the folder

C:\Program Files\12d\12dmodel\15.00

12d Model users normally only have read access to the Program Files folders.



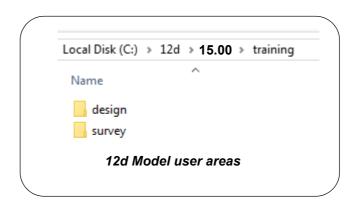
### 4.1.2 C:\12d\15.00

The 12d Model installation also creates the folder:

C:\12d\15.00

which during the installation is given read/write access for the user.

If the **Courses and Training** component was ticked, then the installation will place some training and testing data in the folders *design* and *survey* in the folder **12d\15.00** (or the folder you selected)



The folder **12d15.00** is also the default folder where the *nodes.4d* file with **12d Model 15** authorisations in it is installed:

C:\12d\15.00\nodes.4d

and is also the default area where a user creates their own subfolders **User** and **User\_Lib** for their user configurations of **12d Model**.

#### Warning

An Uninstall will **NOT** delete any of the training material loaded into **12d\15.0\training** and **12d\15.0\courses** by a previous installation.

The 12d Model 15 Install will overwrite any files of the same name in these areas.

### 4.2 Icons Created by the Installation

The installation loads the appropriate components and creates the 12d Model 15 icon



icon for 12d Model 15 exe

The 12d Model 15 icon fire up 12d Model and attaches to the folder 12d\15.00.

# 4.3 Copying Existing User, User\_Lib and env.4d

If you have **12d Model 14** installed on your computer, then you will probably want the files in the folders User and User\_Lib, and env.4d to be used for **12d Model 15**.

(a) The folder User contains your files that are to replace those that 12d Model installs in Set\_ups (e.g. names.4d, linestyl.4d) and if you already have some, you will probably also want to use them for 12d Model 15.

For **12d** *Model* **14**, the default place for **User** is *c*:\12d\14.00\User but it could also be pointed to by the environment variable USER\_4D.

If there is an existing **User** folder, you need to create a new **User** folder for **12d Model 15** and copy to it any files that you want for **12d Model 15**.

The default place for the new **User** in **12d Model 15** is c:\12d\15.00\User but if USER\_4D in your V14 env.4d was used to point to your **V14 User** then you will need to change **USER\_4D** in your **V15 env.4d** to point to your **V15 User** folder

You may need to copy the whole of User to the new area.

(b) The folder User\_Lib contains your own library files and you will probably also want to use them for 12d Model 15.

For **12d Model 14**, the default place for **User\_Lib** is *c*:\12d\14.00\User\_lib but it could also be pointed to by the environment variable USER\_LIB\_4D.

If there is an existing **User\_Lib** folder, you need to create a new **User\_Lib** folder for **12d Model 15** and copy to it any files that you want for **12d Model 15**.

The default place for the new User\_Lib in 12d Model 15 is c:\12d\15.00\User\_Lib but if USER\_LIB 4D in your V14 env.4d was used to point to your V14 User\_Lib then you will need to change USER\_LIB\_4D in your V15 env.4d to point to your V15 User\_Lib folder

You may need to copy the whole of **User\_Lib** to the new area.

(c) Setting Up Your env.4d File for 12d Model 14

The file env.4d contains environment variables that are used to customise 12d Model.

An *env.4d* file is installed it the Set\_Ups folder when **12d** *Model* is installed and if a user wants to make any modifications to any of the environment variables in env.4d, then the modified env.4d file is placed in the *User* folder.

So if you have an env.4d file in your User folder in 12d Model 14, you will probably also

want to use it 12d Model 15.

The default location for your modified *env.4d* file in *12d Model 14* is in your *User* folder for *12d Model 14* so for *12d Model 15*, you need to copy this *env.4d* file to your *User* folder in *12d Model 15*.

(d) Are you using a 12d Network Lock?

If you are setting up **12d Model** to use a **12d Network CodeMeter** for the first time, please read the section <u>7 What's New in 12d Model 15 on page 45</u>.

If you are using a **12d Network Lock** (**CodeMeter** or **Wibu**) for **12d Model 14**, then the file **dongles.4d** which is in the **User** folder contains the information to tell **12d Model** that it has to search for a network lock, and possibly which computer the network lock is on.

So if you are using a **12d Network Lock** for **12d Model 14**, you will need to copy your **12d Model 14 dongles.4d** file to the **12d Model 15 User** folder.

### 4.4 End of the Notes for Installing 12d Model 15

This ends the detailed notes for installing **12d Model 15**.

If you need to set up a **Network CodeMeter**, go to the section <u>10 Network CodeMeters on</u> page 51.

The links for downloading documentation on **12d Model** are given in <u>6 Documentation on page 40</u>.

The links for downloading information, power points and videos on what is new in **12d Model 15** are given in <u>7 What's New in 12d Model 15 on page 45</u>.

The rest of the chapters in this document are

5 Certifying CodeMeters on page 30

6 Documentation on page 40

7 What's New in 12d Model 15 on page 45

8 12d Model Training on page 46

<u>9 Errors Installing and Authorising on page 47</u>

10 Network CodeMeters on page 51

11 CodeMeter Control Center & WebAdmin on page 79

# 5 Certifying CodeMeters

CodeMeters use the **Certified Time** capability of the CodeMeter and the CodeMeter must communicate **over the Internet** with a certified Time Server every two months to check that there is no problem with the CodeMeter, and to **update** the **Certified time** in the CodeMeter.

This process is called Certifying the CodeMeter.

Certifying a CodeMeter can be done

- (a) manually from inside 12d Model itself
   Already documented. See <u>5.1 Certifying CodeMeters from 12d Model on page 30</u>
- (b) automatically by 12d Model Already documented. See <u>5.2 Automatically Certifying CodeMeters from 12d Model on</u> page 32
- (c) outside of 12d Model when the CodeMeter is on the computer you are using outside Using CodeMeter Control Centre - already documented in <u>5.3 Certifying CodeMeters</u> <u>Using Control Center on page 33</u>.

or

(d) outside 12d Model when the CodeMeter is NOT on the computer your are using
 It is possible to certify CodeMeters that are on other computers but this is usually only
 needed by Administrators. See <u>11.3.1 Certifying CodeMeters Using WebAdmin on page 89</u>

# 5.1 Certifying CodeMeters from 12d Model

One month before the end of the two month period, **12d Model** will bring up the **Certify CodeMeter Dongle** panel which gives the number of days, minutes and seconds remaining until Certification is required.

🍿 Certify C	odeMeter Dongle	-		×
Container	3-: testa_bed@fred.com			
Clock time	2025-06-09 22:09:33			
System time	2025-06-09 22:09:17			
Box time	2025-06-09 22:06:28			
Certify time	2025-06-05 22:09:45			
Warnings	Warnings warnings will begin in 26 days 0 hours 0 minutes 27 seconds			
Countdown needs to be certified within the next 56 days 0 hours 0 minutes 27 seconds				
Certify	Cmdust Save and exit 12d Exit 12d Finish		Help	

The Certify CodeMeter Dongle panel can also be brought up from within 12d Model by the option Project =>Management =>Dongles =>Certify CodeMeter

Certifying CodeMeters from 12d Model

Page 30

The **Certified time** for that **CodeMeter** is updated to the current date by clicking on the **Certify** button.

#### **Important Note**

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There is an environment variable **AUTO\_CERTIFY\_DONGLE\_4D** and if it is set on then when the warning period is active for the CodeMeter (dongle) being used by **12d Model**, **12d Model** will automatically attempt to certify the CodeMeter and if successful, no intervention by the user is required. See <u>5.2 Automatically Certifying CodeMeters from 12d Model on page 32</u>.

### 5.2 Automatically Certifying CodeMeters from 12d Model

**12d Model** can automatically attempt to certify the CodeMeter whenever it is within the warning period (within one month of the two months after the Certified Time).

If the environment variable **AUTO\_CERTIFY\_DONGLE\_4D** to **1**, whenever **12d Model** is started up, then if it is in the warning period **12d Model** will automatically attempt to certify the dongle. And if successful, no user intervention is required.

The environment variable AUTO\_CERTIFY\_DONGLE\_4D is set by the Edit Environment Variables panel. which is brought up by the Projects =>Management =>env.4d option.

🕡 Edit Environment Variables		
<ul> <li>Env.4d</li> <li>General</li> <li>Files &amp; Folders</li> <li>Projects</li> <li>Dongles</li> <li>General</li> <li>Wibu (deprecated)</li> <li>Elements</li> <li>CAD</li> <li>Plotting</li> <li>Survey</li> <li>Drainage</li> <li>MTF &amp; Boxing</li> <li>Tunnel</li> <li>Views</li> <li>GUI</li> </ul>	General Time dongle access Nodes file Dongles file Auto certify Codemeter	
Warnings and Error Reporting GIS Variables Variables Write	Search for field	h Prev. Next

Please contact your 12d Model Reseller if you are having problems certifying your CodeMeter.

#### Note

Any computer which has the environment variable **AUTO\_CERTIFY\_DONGLE\_4D** set to **1** can certify the **Network CodeMeter** that it is using to obtain a license from a **12d dongle**.

Please contact your 12d Model Reseller if you are having problems certifying your CodeMeter.

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### 5.3 Certifying CodeMeters Using Control Center

The Certified Time for any **CodeMeter** attached to your current computer can be displayed by using the **CodeMeter Control Center** which is brought up by clicking on the **CodeMeter** icon that was installed on your task bar.



The CodeMeter Control Center shows any CodeMeters that are attached to the this computer.

CodeMeter Control Center			X
File Process View Help			
License Events Borrow			
© CmStick 2-2310262	Name:		
	Serial:	2-2310262	9
	Version:	CmStick 2.04	6
	Capacity:	93 % free (367400 Bytes)	
	Status:	Oisabled	
		Enabled until unplugged	
	License Update	Change Password	
CodeMeter is started.			

The Certified Time in a CodeMeter that is on this computer can be displayed and updated by clicking on **Process >Update Time Certificates** 

CodeMeter Control Center			
File Process View Help			
Lig ( Defragment License Memories			
Repair Hardware Configuration	Name:		
<ul> <li>Start CodeMeter Service</li> <li>Stop CodeMeter Service</li> </ul>	Serial: 2-2310278	9	
	Version: CmStick 2.04	ଔ	
	Capacity: 93 % free (367432 Bytes)		
	Status: 🔘 🞯 Disabled		
	🔘 🥥 Enabled until unplugged		
	e Contraction Enabled		
Licens	se Update Eject Change Password		
CodeMeter is started. WebAdmin			

#### Note

If the **CodeMeter** is not on the computer you are using the then certifying the codemeter must be done using **CodeMeter WebAdmin** (see <u>11.3.1 Certifying CodeMeters Using WebAdmin on</u> page 89).

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# 5.4 Installing the CodeMeter Drivers Separately

For some reason you may want to install the CodeMeter drivers separately to the **12d Model** installation. In that case you only need to download the CodeMeter Drivers which is downloaded from:

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/CodeMeterRuntime\_8\_20.exe

WARNING You need to have System Administrator rights to install the CodeMeter drivers

Once you have downloaded the **CodeMeter Drivers exe**, click on it to begin the installation process.

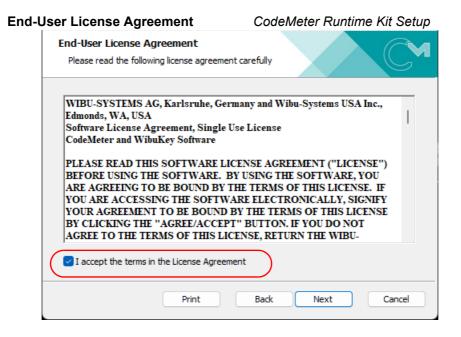
**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

Installing the CodeMeter Drivers:

The script to install the CodeMeter drivers begins.



Select Next to continue.



Read the License Agreement and if you are happy with it, **tick** "I accept the terms in the License Agreement" and then select **Next** to continue.

CodeMeter Runtime Kit Setup

#### Installation Scope

Installation Scope Choose the installation	scope and folder
User name: Organization:	Design Without Pain
	e Kit vo. 20 vvm ue mistalled in a per-user folder and be available account. You do not need local Administrator privileges.
and be available f	ne Kit v8.20 will be installed in a per-machine folder by default or all users. You can change the default installation folder. You dministrator privileges.
	Back Next Cancel

Enter your User name and Organisation.

Click on either Install just for you or Install for all users of this machine and then select *Next* to continue.

CodeMeter Runtime Kit Setup
alled.
he way features will be installed. This features installs the CodeMeter Runtime Kit on your computer.
This feature requires 137MB on your hard drive. It has 2 of 5 subfeatures selected. The subfeatures require 34MB on your hard drive.
Browse Browse

Select Next to continue.

### Ready to Install

CodeMeter Runtime Kit Setup

Ready to install CodeMeter Runtime Kit v8.20	
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.	
Back Install	Cancel

Select Install to continue.

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Installin	ıg		CodeMeter Runtime Kit Setup
	Installing	g CodeMeter Runtime Kit v8.	3.20
	Please wait	while the Setup Wizard installs Code	deMeter Runtime Kit v8.20.
	Status:	Updating component registration	n
			Back Next Cancel

### Completed

CodeMeter Runtime Kit Setup

CodeMeter Runtime Kit v8.	20 Setup	-		×
CM	Completed the CodeMet v8.20 Setup Wizard	er Runt	ime Kit	
	Click the Finish button to exit the Se	etup Wizard	I.	
<b>UIBU</b> SYSTEMS				
Build 6539				
	Back Fin	ish	Canc	el

Select Finish to end.

Note: A CodeMeter icon, that is used to bring up the CodeMeter Control Center, is also installed on your task bar.



### **Important Notes**

- 1. Do not attach a hardware lock to your computer until after the appropriate driver is installed
- 2. The CodeMeter drivers need to be at least version 6.3.

If your computer already has drivers installed and they are NOT at least version **6.3**, when **12d Model 15** starts it will stop and complain that the hardware lock drives are **NOT** up to date.

Installing the CodeMeter Drivers Separately

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If that is the case then

- (a) Uninstall the existing CodeMeter drivers
- (b) Install new CodeMeter drivers. See 5.4 Installing the CodeMeter Drivers Separately.

If you were installing the CodeMeter drivers as part of setting up a **Network CodeMeter**, go to \_ <u>What is Done to the Computer By Step 1</u>.

After CodeMeter drivers have been installed, the CodeMeter can be attached to the computer. Go to <u>Step 2. Attach the Dongle</u>.

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# 6 Documentation

### See

6.1 12d Model Reference Manual on page 40

6.2 12d Model Programming Language Manual on page 42

6.4 12dxml File Format on page 43

6.5 12da File Format on page 44

7 What's New in 12d Model 15 on page 45

## 6.1 12d Model Reference Manual

The **12d Model Reference** manual contains the technical information required for using **12d Model** includes information such as:

- (a) the tools and concept used in 12d Model
- (b) descriptions of the 12d Model screen layout, views and toolbars
- (c) information on each 12d Model menu
- (d) technical information on the fields in each 12d Model panel
- (e) information on all the set up files for 12d Model. For example, for colours and linestyles
- (f) information on the 12d XML and 12da file formats
- (g) information on the 12dfield and fld file formats

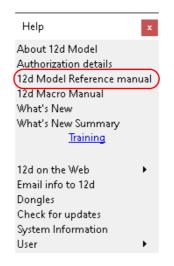
Although the **12d Model Reference** manual contains some information on each of the fields in panels, it is the **technical information** about what is valid values etc and is not intended to be a full description on how all the options work together. That is, it is **NOT a training manual**.

The **12d Model Reference** manual also acts as a **context sensitive Help** system when **12d Model** is running.

That is, when **12d Model** is running:

- (a) for most menus in **12d Model**, when the menu is on the screen and has the Windows focus, pressing F1 will open the **12d Model Reference** manual at that menu
- (b) for most panels in **12d Model**, when the panel is on the screen and has the Windows focus, pressing F1 will open the **12d Model Reference** manual at that panel. Or if the panel has a **Help** button, clicking on the **Help** button opens the **12d Model Reference** manual at that panel.

The full **12d Model Reference** manual is can be accessed from within **12d Model** by clicking on the option **Help =>12d Model**.



The **12d Model Reference** is a pdf file and when **12d Model** is installed, it is copied into the **Help** folder.

📙 « Local Disk (C:) » Program Files » 12	d > 12dmodel > 15.00 > help
Name	^
🔒 12d.pdf 🛛 🚤	
12d_A_File_Format.pdf	
12d_Field_File.pdf	12d Model Reference manua
12D_PROGM.pdf	
剧 12d_View.pdf	
12d_XML_File_Format.pdf	
12dm_getting_started_for_design.pdf	
12dm_getting_started_for_surveying.pdf	
Projection_Traverse_Spreadsheet.pdf	
👃 Whats_New_in_12d_Model.pdf	

To download a zipped copy of the**12d Model Reference** manual,**12d.pdf**, click on the following link and then unzip the downloaded file

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/12d.zip

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

Continue to 6.2 12d Model Programming Language Manual or return to 6 Documentation.

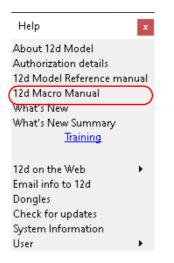
## 6.2 12d Model Programming Language Manual

The **12d Model Programming Language** (12dPL), is a powerful programming language designed to run from within **12d Model**. It is also known as 4DML from when the product was called **4d Model**.

Its main purpose is to allow users to enhance the existing **12d Model** package by writing their own programs. These programs are often called **macros**.

The **12d Model Programming Language** manual is a reference manual and does not try to teach programming techniques. Instead this manual sets out the syntax, restrictions and supplied functions available in 12dPL.

The **12d Model Programming Language** manual is a pdf file and can be downloaded from within **12d Model** by clicking on the option **Help =>12d Macro Manual**.



To download a pdf copy of the **12d Model Programming Language** manual **12d\_prog.pdf** outside of **12d Model**, click on the following link

https://downloads.12dmodel.com/v15/12d Model 15 C1s/12d progm.pdf

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

Continue to <u>6.3 12d Field File Format</u> or return to <u>6 Documentation</u>.

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## 6.3 12d Field File Format

The **12d Field File Format** manual contains the documentation of the **12d Model** raw survey file format **.12dfield**, and the older raw survey file format, **.fld**.

The **12d Field File Format** is part of the **12d Model Reference** manual (see <u>6.1 12d Model</u> <u>Reference Manual</u>) but the chapter as also been separated out so the entire **12d Model Reference** manual is not needed.

To download a pdf copy of the **12d Field File Format** manual, click on the following link

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/12d\_Field\_File\_Format.pdf

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

Continue to 6.4 12dxml File Format or return to 6 Documentation.

## 6.4 12dxml File Format

The **12dxml** file format is a text file definition from **12d Solutions** which is used for reading and writing out string data from **12d Model**. **12dxml** files normally end in **.12dxml**.

The 12dxml file is a Unicode file.

The documentation for **12dxml** is part of the **12d Model Reference** manual (see <u>6.1 12d Model</u> <u>Reference Manual</u>) but the chapter as also been separated out so the entire **12d Model Reference** manual is not needed.

To download a pdf copy of the **12d Model 12dxml** manual, click on the following link

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/12d\_xml\_File\_Format.pdf

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

Continue to 6.5 12da File Format or return to 6 Documentation.

## 6.5 12da File Format

The **12da** (**12d Archive**) file format is a text file definition from **12d Solutions** which is used for reading and writing out string data from **12d Model**. **12da** files normally end in **.12da**.

The **12da** file is a **Unicode** file.

The documentation for **12da** is part of the **12d Model Reference** manual (see <u>6.1 12d Model</u> <u>Reference Manual</u>) but the chapter as also been separated out so the entire **12d Model Reference** manual is not needed.

To download a pdf copy of the 12da File Format manual, click on the following link

https://downloads.12dmodel.com/v15/12d\_Model\_15\_C1s/12d\_A\_File\_Format.pdf

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

#### Further Notes:

- 1. **12da** was originally an Ascii file and stood for **12d Ascii** but now that the **12da** file is a Unicode file, **12da** stands for **12d Archive**.
- 2. 12da has now been superseded by 12d xml (see 6.4 12dxml File Format)

Continue to 7 What's New in 12d Model 15 or return to 6 Documentation.

\*\*\*\*

# 7 What's New in 12d Model 15

This chapter contains links to information on many of the new things in **12d Model 15**.

See

7.1 What's New pdf on page 45

7.2 What's New Summary of All Additions on page 45

7.3 What's New Summary of Additions Sorted by Sub-Version on page 45

## 7.1 What's New pdf

The *What's New in 12d Model 15 pdf* gives detailed information on many of the new options and features in *12d Model 15*.

https://downloads.12dmodel.com/V15/12d\_Model\_15\_C1s/Whats\_New\_in\_12d\_Model.pdf

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

### 7.2 What's New Summary of All Additions

A one line summary of all the additions in 12d Model 15, sorted by Component:

https://downloads.12dmodel.com/V15/12d\_Model\_15\_C1s/WNS\_in\_12d\_Model\_All.htm

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

### 7.3 What's New Summary of Additions Sorted by Sub-Version

A one line summary of all the additions and fixed bugs in **12d Model 15**, broken into **sub-versions** and subsorted by **Components**:

https://downloads.12dmodel.com/V15/12d\_Model\_15\_C1s/WNS\_in\_12d\_Model\_subsort.htm

**Note**: If clicking on the link does not start up your Browser then copy the text of the link into your Browser.

Continue to <u>8 12d Model Training</u> or return to <u>6 Documentation</u>.

# 8 12d Model Training

There are a variety of 12d Model training courses available including:

(a) Instructor Led Online Public Training

This training is conducted over Teams and is led by an Instructor. Courses from beginners to advanced are available on all aspects of **12d Model**.

**12d Model** licences are provided for the training.

The Public courses are open to anyone.

(b) Instructor Led Online Training for One Company

This training is conducted over Teams and is led by an Instructor. Courses from beginners to advanced are available on all aspects of **12d Model**.

**12d Model** licences are provided for the training.

The **One Company** courses are restricted to those students nominated by the company booking the course.

(c) Self Paced Online Training (SPOT)

This training is conducted online but their is no Instructor. The student works throw a series of videos and questions. **12d Model** licences are provided for the training.

There are FREE and chargeable SPOT courses.

The **SPOT** courses are open to anyone.

(d) Face to Face Public Training

This training is conducted face-to-face by an Instructor. Courses from beginners to advanced are available on all aspects of **12d Model**.

**12d Model** licences are provided for the training.

The Public courses are open to anyone.

(e) Face to Face Inhouse Training for the One Company

This training is conducted face-to-face by an Instructor. Courses from beginners to advanced are available on all aspects of **12d Model**.

12d Model licences are provided for the training.

The **One Company** courses are restricted to those students nominated by the company booking the course.

For more information, see <u>https://www.12d.com/training/index.html</u>and/or <u>https://www.civilandsurveying.com</u>

Return to 7 What's New in 12d Model 15.

7 / F

# 9 Errors Installing and Authorising

### See

9.1 12d Model XX Not Authorising on page 47

9.2 Licence Expiry Warning on page 48

9.3 Dongle Missing on page 49

## 9.1 12d Model XX Not Authorising

If there is an *error* with the installation, then the *Error Authorizing Release Version* panel appears with the error messages in the panel message area.

For example, for 12d Model XX

Authorization Error					
120 N	lodel <sup>®</sup> X	<u> </u>			
Summary Authorization deta	ils Dongle administration				
An error occu	rred while authoriz	zing this c	opy of 12d Mo	del!	
Date <u>21-10-14 1</u> Company 12D Solution	h		npany means tha Ind there is a VX	it a nodes.4d file has X entry in it	
User ljg			a to file found		
Nodes.4d file found <u>c:</u>	\12d\`××.00\nodes.4d	nou	les.4d file found	and being used	
12d Model tried to log	in to the following dongles		no 12d de	ongle detected	
Dongle	Туре	Dongle number	Search location	Status	
New dongle	codemeter_auto_local_dongle	UNKNOWN	Local Computer	no local containers found	
<ol> <li>Make sure any lo</li> <li>Make sure the co</li> <li>Make sure the loss</li> </ol>	orization details" tab for errors cal dongles are plugged in. mputer can see all local dongles cal service is running. omputer was searched. Do you				
			nstallation mess ind error messa	-	
unning msinfo32.exe in the b	ackground, so no need to wait until	t finishes! \			
Projects	Dongles	nv.4d	Quit	Email support Help	

In the above panel, the UNKNOWN in the **Dongle number** column shows that no **12d** dongle has been detected.

12d Model XX Not Authorising

If there is no error message on the panel or it is still not obvious what the problem is, please contact your **12d Model Reseller**.

## 9.2 Licence Expiry Warning

The *nodes.4d* file that controls **12d** *Model*, only validates **12d** *Model* to run for a certain period of time.

If when running **12d Model**, the Licence Expiry Warning panel appears:

Licence Expiry Warning	
The current licence finishes in 14 days (Thursday, June 18, 2015) at 23:	59
If you have entered a new code further down in the file,	
it will be used when this one expires	
You may wish to make the new one current now to test it	
OK	

it simply means that the *nodes.4d* file needs to be updated.

Please contact your **12d Model** Reseller to obtain a new nodes file before the given date. If this is not done then **12d Model** will no longer run until you do obtain and install a new nodes file.

## 9.3 Dongle Missing

If when running 12d Model, the Dongle Missing panel appears:

Dongle Missing
Dongle administration
Dongle administration       All Dongles
Looking for dongle /
Retry Dongle retry Save and exit 12d Exit 12d

it simply means that the 12d dongle can no longer be seen by 12d Model.

Please check that your **12d** dongle is still attached to your computer, or if you are using a network dongle, that your network is still active.

Then click on Retry, and if that doesn't work, click on Dongle retry.

Even if you still can not see the dongle, **12d Model** will allow you to save your current work so that nothing is lost by clicking on the **Save and exit** 12d button.

-

# 10 Network CodeMeters

A **12d Local CodeMeter** (also known as a **Standalone** or **single-user CodeMeter**) is a CodeMeter that is attached to a computer that only allows **12d Model** to be run on **that computer**.

If the **12d Local CodeMeter** is to be used on another computer then the **12d Local CodeMeter** must be moved to the other computer. This means that **12d Model** will no longer run on the computer without the **12d Local CodeMeter**.

This is the default installation for 12d Model.

A 12d Network CodeMeter is a CodeMeter that controls a number of 12d Model licenses and the 12d Network CodeMeter can potentially be accessed by any other computer on the network, and allows copies of 12d Model to be run on those computers without needing a 12d Local CodeMeter.

The **12d Model** licenses controlled by the **12d Network CodeMeter** can be accessed and used in any country and any time zone, subject to any Australian and local Laws that may prevent it.

The only restriction is that each instance of **12d** *Model* on a computer requires its own **12d** *Model* license from the **12d** *Network CodeMeter*.

**12d Network CodeMeters** are metallic and a silver colour, and are labelled with a number starting with **ec**.



Note: When using a 12d Network CodeMeter, each running copy of 12d Model using a 12d Network CodeMeter on a computer requires a license from the 12d Network CodeMeter.

If your computer is not using a **12d Local CodeMeter** and is only using a **12d Network CodeMeter** to obtain **12d Model** licenses then **12d Model** and the CodeMeter Drivers **still need to be installed on the computer** that is wanting to run **12d Model**.

**BUT** when **12d** *Model* is installed it is set up for users with a Local (single user or stand alone) CodeMeter and installs a *dongles.4d* file that assumes that **12d** *Model* is only using a **12d** *Local CodeMeter* and has no access to a **12d** *Network CodeMeter*.

So to access a **12d Network CodeMeter**, the **dongles.4d** file needs to be modified and the **nodes.4d** file you use will need to contain an authorization for the **12d Local CodeMeter**.

Note: a computer can be set up to look for both a **12d Local CodeMeter** and a **12d Network** CodeMeter.

To install the *Network CodeMeter* and configure computers to use the Network CodeMeter, you will need

### 1. First Install the CodeMeter drivers

### **IMPORTANT WARNING**

Do not attach any CodeMeters, Network or Standalone, to your computer until after you have installed the CodeMeter Drivers.

The latest CodeMeter Drivers installation program is downloaded from:

https://downloads.12dmodel.com/v15/12d Model 15 C1s/CodeMeterRuntime 8 20.exe

For the notes for installing the CodeMeter Drivers separately, see <u>5.4 Installing the CodeMeter</u> <u>Drivers Separately on page 35</u>.

 a nodes.4d file to authorize the 12d Model xx licenses controlled by the 12d Network CodeMeter where xx is the 12d Model versions required.

This is usually supplied in an email a the attached file *nodes.12dxxn* (for example, for 12d *Model 15*, it will be *nodes.12d15n*)

Or you may already have it in a folder with the **12d Model** authorization file **nodes.12dxxn** or **nodes.4d** in it.

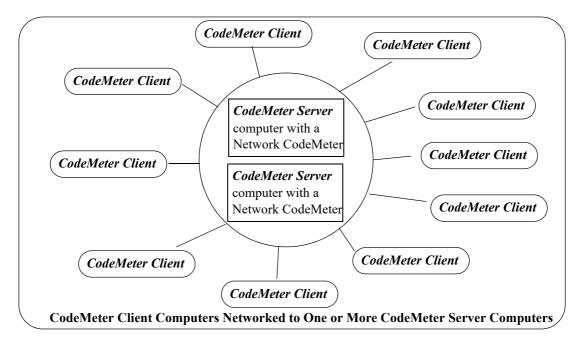
Full instructions setting up Network CodeMeters, and making the required modifications to the *dongles.4d* file and the *nodes.4d* file, are given in the rest of this chapter.

Continue to 10.1 Definitions and Guide to the Network Notes on page 53.

## 10.1 Definitions and Guide to the Network Notes

A **12d CodeMeter Server** is a computer with a **12d Network CodeMeter** attached to it. Note that this can be any computer, it does not have to be a Server Computer.

A **12d CodeMeter Client** is a computer that gets its **12d Model** licenses from a **12d CodeMeter Server**. The CodeMeter Client computer does not have a 12d Network CodeMeter attached to it.



Both CodeMeter Servers and CodeMeter Clients must have the CodeMeter Drivers and CodeMeter Runtime Server service installed and running and this is described in <u>10.2 Installing</u> CodeMeter Drivers on page 55.

**CodeMeter Servers** must also have the **CodeMeter Network Server** running and this is described in <u>Step 6. Starting the 12d Network Server on page 63</u>.

To run **12d Model** on a CodeMeter Client, an appropriate **dongles.4d** and valid **nodes.4d** file must be obtained and set up. This is describing in <u>10.4 dongles.4d and nodes.4d on page 65</u>.

These notes are for

- (a) Installing and setting up a new 12d Network CodeMeter to act as a 12d License server
- (b) Setting up other computers (Clients) so they can access the Network CodeMeter and **12d Model** licenses in the 12d Network CodeMeter.
- (c) Setting up/Updating dongles.4d to instruct the other computers (Clients) which Network CodeMeters to use. This can be down to the level of using a particular virtual 12d dongle inside a particular 12d Network CodeMeter.
- (d) Setting up/Updating the **nodes.4d** file with the authorization to match the **12d dongle** being accessed inside a 12d Network CodeMeter.
- (e) Updating the 12d Model licenses in a 12d Network CodeMeter

and

(f) Monitoring 12d Network CodeMeters.

### WARNING

If the computers accessing a **12d Network CodeMeter** are in a **different subnet** (behind a **router**) to the **12d Network CodeMeter** then **12d Model** needs to be given the IP address or the computer names of the servers with the **12d Network CodeMeter**. This will be explained later in the notes. This will also apply to computers connected by Wireless or DHCP.

If you already have a **12d Network CodeMeter** and are simply updating a **12d dongle** inside the **Network CodeMeter**, go to the section <u>11.5 Updating Licenses in Network CodeMeters on page 111</u>.

if your are installing a **12d Network CodeMeter** on the computer for the first time, please continue to the next section <u>10.1 Definitions and Guide to the Network Notes on page 53</u>.

### Important Note for Going From 12d Local CodeMeters to 12d CodeMeter Servers

The *CodeMeter drivers* are exactly the same ones that are used for a 12d Local (standalone or single-user) CodeMeter. So if a computer is already been used for a 12d Local CodeMeter with **12d Model**, then the *CodeMeter drivers* have already been installed and will not need to be installed again.

This means that if a **12d Network CodeMeter** is introduced, all the computers that are currently running **12d Model** with a Local CodeMeter will not need the CodeMeter drivers installed.

However, such *CodeMeter Client* computers will need a modification to their *dongles.4d* file to tell the computer that *12d Model* licenses can be obtained from a *12d Network CodeMeter* rather than just a 12d Local CodeMeter (see <u>10.4 dongles.4d and nodes.4d on page 65</u>).

Also a valid **nodes.4d** file for the **12d dongle** inside the **12d Network CodeMeter** is needed (see <u>11.5 Updating Licenses in Network CodeMeters on page 111</u>).

## 10.2 Installing CodeMeter Drivers

**IMPORTANT WARNING** - Do not attach a *12d CodeMeter* to your computer until after you have installed the *CodeMeter* drivers.

This section is installing the CodeMeter drivers.

This must be done on the computer that will have the 12d Network CodeMeter attached to it (the **CodeMeter Server**) and also for all the computers that are **12d CodeMeter Clients** using the CodeMeter Server.

If the computer has **no** CodeMeter Drivers, or **old** CodeMeter Drivers, installed on it, go to <u>5.4</u> <u>Installing the CodeMeter Drivers Separately on page 35</u>.

If a computer is to become a CodeMeter Sever but already has the CodeMeter Drivers installed on it, then go straight to <u>10.3 Setting up a 12d Network CodeMeter on page 58</u>.

If the computer is already set up as a CodeMeter Server and you are adding a new **12d dongle** to the 12d Network CodeMeter, or upgrading the number of 12d licenses on a **12d dongle** in the 12d Network CodeMeter, go to <u>11.5.1.1 Updating Using the .WibuCmRaU File on page 115</u>.

If you are replacing the existing 12d Network CodeMeter by a new 12d Network CodeMeter, go to <u>11.6 Replacing an Existing Network CodeMeter on page 119</u>.

### What is Done to the Computer By Step 1

### 1. CodeMeter Drivers

The CodeMeter drivers that allows software to access CodeMeters anywhere on the network is installed.

### 2. CodeMeter Runtime Server

The service **CodeMeter Runtime Server** service is also installed and started on the computer and if you look in the **Services** tab of the *Windows Task Manager*, the **CodeMeter Runtime Server** will be shown as **Running**.

Windows Task Manager File Options View Help					
	formance Netw	vorking Users			
Name	PID	Description	Status	Group	
dr_optimization_v4.0.30319_64 CodeMeter.exe	12464	Microsoft .NET Framework NGEN v CodeMeter Runtime Server	Stopped Running	N/A N/A	
COMSysApp		COM+System Application Stopped N/A			

If for some reason the **CodeMeter Runtime Server** is shown as **Stopped**, to restart it again go to <u>Step 6. Starting the 12d Network Server on page 63</u>.

### 3. CodeMeter Icon

As well as installing the CodeMeter drivers., a  ${\bf CodeMeter}$  icon is installed on your task bar



 $= \not$ 

Clicking on the **CodeMeter** icon brings up the **CodeMeter Control Center** which shows any CodeMeters that are attached to the this computer. The **CodeMeter Control Center** also has options to stop and start the **CodeMeter Runtime Server** and bring up the **WebAdmin** panel to examine the content of CodeMeters anywhere on the network.

😋 Codel	Neter Control Center			8
File Pr	ocess View Help			
License	Events Borrow			
	mStick -2310262	Name:		
		Serial:	2-2310262	9
		Version:	CmStick 2.04	ଷ
		Capacity:	93 % free (367400 Bytes)	
		Status:	Oisabled	
			Enabled until unplugged	
		License Update	Change Password	
CodeMe	ter is started.		We	bAdmin

If the computer is to be a **CodeMeter Server**, then the next step is to check the Network CodeMeter. If this is the case then go to <u>10.3 Setting up a 12d Network CodeMeter on page 58</u>.

If the computer is a CodeMeter Client, then the next steps are to

(a) set up the **dongles.4d file** to see the **12d Network CodeMeter** (and if required a particular 12d dongle inside the 12d Network CodeMeter)

and

(b) set up the **nodes.4d** with the authorization for the required 12d dongle number.

For setting up dongles.4d and nodes.4d, see 10.4 dongles.4d and nodes.4d on page 65.

## 10.3 Setting up a 12d Network CodeMeter

The CodeMeter drivers are now installed and the CodeMeter Runtime Server is running.

The next steps are to actually attach the 12d Network CodeMeter, examine its contents to make sure everything that are correct, and then start up the **12d Network Server** so that other computers in the network will be able to see and use the 12d Network CodeMeter.

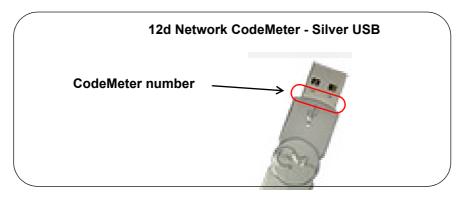
These steps will complete the setting up of the 12d Network CodeMeter as a **12d CodeMeter Server**.

### Step 2. Attaching the Network CodeMeter

The **physical CodeMeter number** can be found on the part of the 12d Network CodeMeter that is pushed into the USB port (the CodeMeter shaft). The number starts with **2**-.

This number needs to be recorded but you need to have very good eyes to be able to read it or have a magnifying glass.

If the CodeMeter number can't be read, it is also possible to obtain the number after the 12d Network CodeMeter is plugged into the USB port of the computer (see <u>Step 3. Checking that the 12d Network CodeMeter is Visible on page 59.</u>)



Now that the CodeMeter drivers are installed on the computer, the **12d Network CodeMeter** can now be attached to the USB port on the computer.

\*\*\*\*

### Step 3. Checking that the 12d Network CodeMeter is Visible

Click on the <b>CodeMeter</b> icon that was installed on your task bar to bring up the <b>CodeMeter Control Center</b> which shows what	0
to bring up the CodeMeter Control Center which shows what	C
CodeMeters are on this computer.	

CodeMeter Control Center			23
File Process View Help			
License Events Borrow			
CmStick 2-2310262	Name:		
	Serial:	2-2310262	
	Version:	CmStick 2.04	3
CodeMeter number	Capacity:	93 % free (367400 Bytes)	
1	Status:	Oisabled	
		🔘 😔 Enabled until unplugged	
		Enabled	
	License Update	Eject Change Password	
CodeMeter is started.			WebAdmin

The CodeMeter number, that is written on the shaft of the CodeMeter, should be displayed in the **CodeMeter Control Center**.

### Step 4. What to Do If You Can't See the CodeMeter

If you were unable to see the CodeMeter number in the **CodeMeter Control Center** then first check that the service **CodeMeter Runtime Server** service is installed and running on the computer by looking in the *Windows Task Manager* and checking that **CodeMeter Runtime Server** is shown as **Running**.

Windows Task Manager							
File	e Options View Help						
Applications Processes Services Performance Networking Users							
	Name	PID	Description	Status	Group		
(	dr_optimization_v4.0.30319_64 CodeMeter.exe	12464	Microsoft .NET Framework NGEN v CodeMeter Runtime Server	Stopped Running	N/A N/A		
	COMSysApp		COM+System Application	Stopped	N/A		

If for some reason the **CodeMeter Runtime Server** is there but shown as **Stopped**, to restart it again see <u>Step 6. Starting the 12d Network Server on page 63</u>.

If you are still having problems then contact your **12d Model Reseller**.

Step 5. Checking the Virtual 12d Virtual Dongles Inside the Network CodeMeter

The 12d Network CodeMeter alone is not enough to provide a license to run 12d Model.

There must also be a **12d virtual dongle** *inside* the Network CodeMeter.

It is the **12d virtual dongle** that controls how many network licenses of **12d Model** are available.

Aside:

The **12d virtual dongle** issues the **12d Model** licenses but the actual **12d Model** modules that go with a license from a **12d virtual dongle** is controlled by a matching entry in the **nodes.4d** file. This means that what **12d Model** modules you have can be updated by just adding a new entry for the nodes.4d file. The word **virtual** is used because the 12d virtual dongle is **NOT** a physical lock. The **12d virtual dongle** is often abbreviated to **12d dongle**.

Clicking on the **WebAdmin** button on the **CodeMeter Control Center** brings up the **CodeMeter WebAdmin** panel which is used to display information about any of the CodeMeters that it can see. **Note** - you may have one of two versions of WebAdmin - see <u>11.8 Which Version of</u> <u>WebAdmin? on page 120</u>.

### For WebAdmin 6:

Clicking on the tab *Content >Licenses* of the **CodeMeter WebAdmin** panel displays the **12d virtual dongle** information stored in the selected CodeMeter.

S WebAdmin   Container	× +			- 🗆 X
← → ⊂ ŵ	build-server.12d.com:22350/container/	/cmcontainer_details.html?BoxSerial=	2 🛛 🏠	III\ ⊡ ≡
SYSTEMS	CodeMe	ter WebAdmi	n	C <sup>M</sup>
Dashboard Container ~		osis ~ Configuration ~	Info	*
All Container < no nam	e> (2-2310233)		<b>?</b>	English (US) Y
<no name<="" td=""><td>2-23102</td><td>33</td><td>CmStick</td><td>2.04</td></no>	2-23102	33	CmStick	2.04
▲ Licenses	🗙 CmContainer Info 🛛 🗙 Backu	ıp & Restore		
▲ 100003 Bun	dling Articles			
Product Code Name		Unit Counter Valid Until	License Quantity	Feature Map
1 SecuriKey Lite	e	n/a n/a	1	0x1
<b>∧ 101956</b> 12d	.com			
Product Code Name		Unit Counter Valid Until	License Quantity	Feature Map
1 12d Model - 9	Stock - 12d Solutions - ec51470113	n/a n/a	5	n/a
1 12d Model	Stock - 12d Solutions ec51470114	n/a n/a	25	n/a
ſſ			1	
Current Server: BUILD-S	ERVER (192.168.68.252) 🙆	(1) Web/	Admin Version: 6.40	,
/ 12d Product nam		l dongle number	/ Total number of the 12d virtual d	

For instructions on how to select and see CodeMeters on a particular 12d Network Server, see <u>11.4.1 Getting Info on CodeMeters on a Particular Server - WebAdmin 6 on page 98</u>

### For WebAdmin 5:

Clicking on the tab *Content >Licenses* of the **CodeMeter WebAdmin** panel displays the **12d virtual dongle** information stored in the selected CodeMeter.

XXXX

CodeM	leter WebAdr	nin			C		
Iome Content	<b>Server Configura</b> nses   User Data   Backup/		sis Info	_	He		
<b>CmContainer:</b> 2-2310262							
	<u>1000</u>	03   Bundling	Articles				
Product Code	Name	Unit Counter	Expiration Time	Activation Time	License Quantity		
1	SecuriKey Lite	n/a	n/a	n/a	1		
	1	<u>01956</u>   12d.o	om				
Product Code	Name	Unit Counter	Expiration Time	Activation Time	License Quantity		
1 1	2d Model - 12d Solutions - ec51470022	n/a	n/a	n/a	3		
2d Product na	me 12d virtual dongle			otal number he 12d dong	of licenses of		

For instructions on how to select and see CodeMeters on a particular Network Server, see <u>11.4.3 Getting Info on CodeMeters on a Particular Server - WebAdmin 5 on page 105</u>

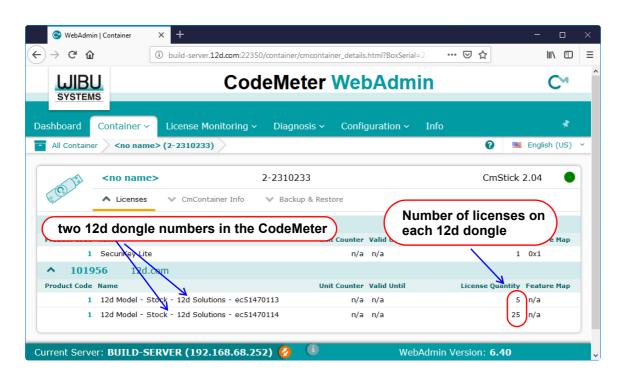
If there are no **12d dongle numbers** displayed inside the 12d Network CodeMeter, or no **12d dongle number** starting with **ec**, contact your **12d Model Reseller**.

You need to make a note of the **12d dongle number** because there must be a valid entry with the matching **12d dongle number** in the **nodes.4d** file.

**Note:** The **WebAdmin** button is only selectable if the **CodeMeter Runtime Server** is running. If it is **Stopped**, to restart it again see <u>Step 6. Starting the 12d Network Server on page 63</u>.

### **Important Note:**

There may be **more than one 12d dongle number** inside the one physical CodeMeter Container. That is why they are also referred to as **virtual** 12d dongles. For example,



Within **12d Model**, it is possible to address specific 12d Network CodeMeters, and specific 12d dongles *within* a 12d Network CodeMeter. This is done via the **dongles.4d** file and how it is set up is described in <u>10.4.1.2 Updating dongles.4d Using the Dongles.4d Editor on page 68</u>.

### Step 6.Starting the 12d Network Server

For a **12d Network CodeMeter** to be seen and used by other computers in the network, the **12d Network Server** needs to be running **on the computer with the 12d Network CodeMeter** on it.

The CodeMeter WebAdmin panel is used to start the 12d Network Server.

Note: The 12d Network Server is controlled by the CodeMeter Runtime Server service so it is critical that the CodeMeter Runtime Server service is running.

To bring up the **CodeMeter WebAdmin** panel, click on the **WebAdmin** button on the **CodeMeter Control Center**.

#### For WebAdmin 6:

In the **CodeMeter WebAdmin** panel, click on the **Configuration >Server >Server access** menu.

→ C' û	localhost:22350/configuration/serve	-	⊘ ☆	
SYSTEMS	CodeMe	eter WebAd	lmin	C⁴
shboard Container	<ul> <li>License Monitoring &lt; Di</li> </ul>	agnosis ~ Configura	tion ~ Info	*
Server Configuration	Server Access	Basic	, (	English (US
Server Access	License Access Permissions	Server	> Serv	ver Access
-Network Server		Advanced	d Licer	nse Access Permis
<ul> <li>O Disable</li> <li>O Enable</li> <li>Network Port *:</li> </ul>	22350			
CmWAN Server				
• Enable CmWAN Port *:	22351			
*) Changes only take eff	Apply	Restore Defaults		

Click on Enable and then Apply.

### For WebAdmin 5:

In the **CodeMeter WebAdmin** panel, click on the **Configuration >Server** tab and then tick on **Run Network Server**.

CodeMeter WebAdmin				
Home Content Server Configuration Diagnosis Info	Неір			
Network  Server   Proxy   Access Control   Certified Time   WebAdmin   Backup   Borrowing				
Server				
Bind Address: All (Default)				
Run Network Server: 🗹 Network Port *: 22350				
Run CmWAN Server:  CmWAN Port *:  22351				
Apply Default				
(*) Changes only take effect after restarting CodeMeter				

Click on **Apply** and a message **Operation completed successfully - please wait** will appear and when it disappears, the above panel is displayed again.

The **12d Network Server** should now be running.

Note that unlike the **CodeMeter Runtime Server** service, the **12d Network Server** is not a service and so will not appear in the **Windows Task Manager**.

The computer with the 12d Network CodeMeter is now ready to use as a **12d CodeMeter Server**.

×~~>

## 10.4 dongles.4d and nodes.4d

For 12d Model to be able to create and/or open existing projects, it requires

(a) a license from a 12d dongle inside a 12d Network CodeMeter

and

(b) a valid entry with the matching 12d dongle number in the nodes.4d file

Once **dongles.4d** and **nodes.4d** have been updated, they must be the **nodes.4d** and **dongles.4d** files that are used for any computer wanting to use a **12d Model** license from the **12d Network CodeMeter.** 

For updating **dongles.4d**, see <u>10.4.1 Modifying the dongles.4d file on page 65</u>.

For updating nodes.4d, see 10.4.2 Installing a nodes.12d15n File on page 76.

### 10.4.1 Modifying the dongles.4d file

The **dongles.4d** file lists the computers to search for **12d Network CodeMeters**, **12d Local CodeMeters** and **12d Local Wibu** dongles to find **12d dongle numbers**.

It also defines the order to search for CodeMeters and Wibus.

When **12d Model** is installed on a computer, it installs a **dongles.4d** file that is configured to only look for **Local (standalone) CodeMeters** and **Local Wibus**.

For each computer that needs to access to a **12d Network CodeMeter**, a modification has to be made to the *dongles.4d* file used by that computer to tell **12d Model** to **search for a 12d Network CodeMeter** and not just use a *12d Local CodeMeter*.

The updated **dongles.4d** is then placed in the standard search path for a set up file for that computer and the particular version of **12d Model**. For example, for **12d Model 15**, the **dongles.4d** could be in c:\12d\15.00\User. Or it uses a file pointed to by the environment variable **DONGLES\_4D** in **env.4d**. This means that the **dongles.4d** file could be on the one central computer and accessed by all the other computers.

#### **Important Note**

In the initial **12d Model** installation, the **dongles.4d** file is a set up file and is installed in the **Set\_ups** folder under the **12d Model** version number.

For example, for 12d Model 15

#### Program files\12d\12dmodel\15.00\Set\_ups

All the files in *Set\_ups* are supplied by **12d Solutions** and must not be modified. Hence in updating the default *dongles.4d* file, the procedures outlined will modify a copy of the *dongles.4d* file.

The editing of dongles.4d **does not** have to be on the computer that the *12d Network CodeMeter* is on. It can be done from any computer.

There are two ways that the *dongles.4d* file can be modified:

1. Using the Dongles.4d Installer program on a dongles.12d15d file

If **12d Model** is **V15 C1m** or later, then during the installation an association has been set up for \*.12d15d files to file up the **Dongles.4d Installer** program. See <u>10.4.1.1 Installing using</u> the dongles.12d15d file on page 66.

dongles.4d and nodes.4d

2. Updating the *dongles.4d* file using the Dongled.4d Editor

The dongles.4d file can also be updated using a text editor. See <u>10.4.1.2 Updating</u> dongles.4d Using the Dongles.4d Editor on page 68.

### 10.4.1.1 Installing using the *dongles*.12d15d file

When **12d Model xx** is installed, a *Windows* file association is created so that a **\*.12dxxd** file is recognised and it brings up the **Install a 12d Model xx Dongles File** panel which is used is to update a **dongles.4d** file with the dongles information in the **.12dxxd** file.

So to update your dongles.4d file, a file called *dongles.12dxxd* where *xx* is the *12d Model* version number, will be emailed to you by your local *12d Model* Reseller.

For example, for 12d Model 15, the file is called dongles.12d15d



In the email, double click on the files *dongles.12dxxd* and the **Opening Mail Attachment** panel comes up,

Emailing: dongles.12d15d	
Lee John Gregory To • Lee John Gregory	
dongles 12d15d 8 KB dongles.12d15d 8 KB V	
<u>P</u> review	Opening Mail Attachment 🛛 😓 🗙
<ul> <li>☑ Open Quick Print     </li> <li>☑ Save As     </li> </ul>	You should only open attachments from a trustworthy source. Attachment: dongles.12d15d from Emailing: dongles.12d15d - Message (Plain Text)
Image: Save All Attachments         X       Remove Attachment         Image: Depy         Image: Select All	Would you like to open the file or save it to your computer?           Open         Save         Cancel           Image: Always ask before opening this type of file         Image: Cancel         Image: Ca

Clicking on *Open* brings up the Install a **12d** Model xx Dongles File panel.

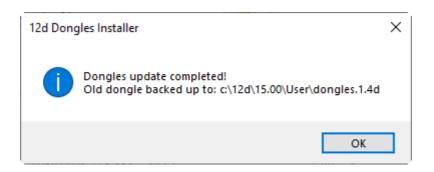
🗊 Ins	tall a 12d N	Nodel XXDongles File —		×
Install	Manage			
Sourc	e:	C:\12d\15.00\user\dongles.12d15d		
Opera	ation:	Prepend	~	
Destir	nation:	c:\12d\XX.00\User\dongles.4d		$\bigcirc$
		Install	Cano	cel

The choices for Operation are:

- **Prepend** if a **dongles.4d** file already exists, the information in the **dongles.12dXXs** file is added to the **beginning** of the existing dongles file. A backup up copy of the existing **dongles.4d** is created.
- **Replace** if a **dongles.4d** file already exists, it is replaced by a new **dongles.4d** file with the information in the **dongles.12dxxd** file in the new nodes file. A backup copy of the existing **dongles.4d** is created.
- **Append** if a nodes.**4d** file already exists, the information in the nodes.**12dxxd** file is added to the end of the existing dongles file. A backup copy of the existing **dongles.4d** is created.

Select Replace, Append or Prepend and then click Install.

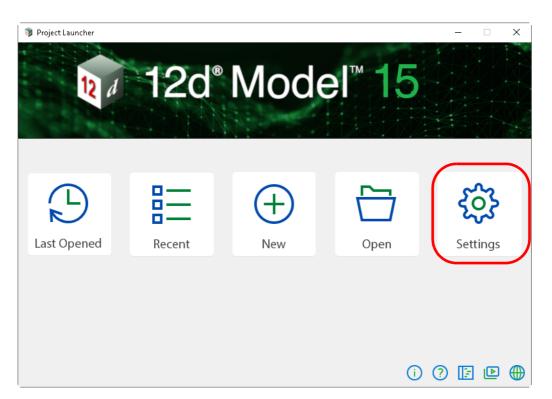
The new/updated *dongles.4d* file is created in the **Destination** folder (default is *C:\12d\xx.00\User*) and if a **dongles.4d** file already existed, a backup copy of it is made.



For the updating of **nodes.4d**, see <u>10.4.1.2 Updating dongles.4d Using the Dongles.4d Editor on</u> page 68.

### 10.4.1.2 Updating dongles.4d Using the Dongles.4d Editor

To edit the **donges.4d** file using the **Dongles.4d Editor**, start up the **Project Launcher** for **12d Model** BUT it is not necessary to open a **12d Model** project. The current **dongles.4d** file can be edited by simply starting up **12d Model** by clicking on the **12d 15** icon to bring up the Project Launcher:



Clicking on **Settings** displays the **Start-up Settings** panel and then click on the **dongles.4d editor** icon to bring up the **Dongles.4d Editor** panel.

📦 Sta	rt-up Settings				-		$\times$
		<sup>®</sup> Model <sup>™</sup> 1 gles.4d Editor icon	5				
$\bigcirc$	2010						$\oslash$
	Configuration file	\$USER\env_configs.4d					
	Default environment configuration					$\odot$	
	Default dongle configuration					$\odot$	
	Default theme					$\odot$	
	Default theme size					$\odot$	
			()	?			

Note:

7 / F

Or if the **12d Model** you are running is already authorised and you are in an open project, you can access the **Dongles.4d Editor** by picking the option

Projects =>Management =>Dongles =>Dongles.4d editor

Both methods bring up the Dongles.4d Editor panel.

If the *dongles.4d* is the one installed with **12d** *Model* then it will only be looking for **Local** (standalone) **CodeMeters** and Local (standalone) Wibus:

	🕡 Dongles.4d Editor		- 🗆	×
Add a new entry	Add Delete 🐟 🗇			
	Codemeter Local	Туре	Codemeter - A	Auto L
	Wibu Local	Name	Codemeter Lo	cal
	Hild Local	Active	true	~
		Filter		abid
	Π Τ	# retries	0	
		Wait time (seconds)	0.01	
	List of CodeMeter and Wibu dongles to search for.			
	They are searched for in the order in this list.			
	is valid			
	Write	Finish	Help	

What it needs in the list is an entry to tell 12d Model to look for your 12d Network CodeMeter.

To **Add** a new entry to dongles.4d, click on the **Add** button which then bring up the **Add a New Dongle** panel.

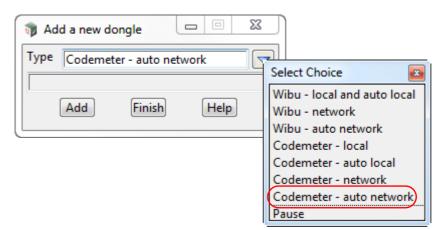
📦 Add a new dongle 🛛 🗆 🕺	
Type Codemeter - auto network	Select Choice
Add Finish Help	Wibu - local and auto local Wibu - network Wibu - auto network Codemeter - local Codemeter - auto local Codemeter - network Codemeter - auto network Pause

To add an entry to search for all Network CodeMeter on the network, see <u>10.4.1.2.1 Search for</u> any <u>12d Network CodeMeter on page 70</u>.

To add an entry to use a particular 12d dongle number in a particular 12d Network CodeMeter, see <u>10.4.1.2.2 Using a 12d Dongle Number in a 12d Network CodeMeter on page 73</u>.

### 10.4.1.2.1 Search for any 12d Network CodeMeter

The simplest entry to add is the one that searches for all 12d Network CodeMeters on the network.



For this case, select **CodeMeter - auto network** for **Type** and then click on **Add**. A new entry with the default name **New dongle** is added to the bottom of the list.

🕡 Dongles.4d Editor		_		×
Add Delete 🐟 🄝				
Codemeter Local	Туре	Codem	neter - Ai	uto
Wibu Local	Name	New de	ongle	
New dongle	Active	true		~
New doingle	Filter			abo
	# retries	0		
	Wait time (seconds)	0.01		
is valid				
Write	Finish	Help		

Click in the Name field and change New dongle to whatever you want, say CodeMeter - auto network.

The order in the list is the order that **12d Model** searches to find a valid dongle.

For example if you want to always search for a **local dongle BEFORE the 12d Network CodeMeter** then leave the order as it is.

\_\_\_\_

📦 Dongles.4d Editor		—		×
Add Delete \land 🗇				
Codemeter Local	Туре	Codem	eter - Au	ito
Wibu Local	Name	CodeM	to n	
	Active	true		~
CodeMeter - auto network	Filter			abo
	# retries	0		
	Wait time (seconds)	0.01		

This is what is normally wanted. That is, use a local dongle if it exists, otherwise use a network license.

If you want to always search for a **12d Network CodeMeter BEFORE** a **local dongle** then use the Up arrow icon to move the **CodeMeter - auto network** to the top of the list. This is rarely wanted.

🕡 Dongles.4d Editor		_		$\times$
Add Delete 💠 🗇				
CodeMeter - auto network	Туре	Codemeter - Auto		
Codemeter Local	Name	CodeMeter - auto n		
Wibu Local	Active	true		$\checkmark$
	Filter			abo
	# retries	0		
	Wait time (seconds)	0.01		

To save the information to the **dongles.4d** file, press **Write** to bring up the **Write Setup File "dongles.4d"** panel.

📦 Write Setup File "dongles.4d"	_		$\times$
C Found folder c:\12d\14.00\user\dongles.4d			
Current folder E:\4d_documentation\12d_V14.00_Doco\12d_Model_14_Pi User folder c:\12d\14.00\user	rojects\D	ESIGN SU	IRVEY
C Other folder       Folder       E:\4d_documentation\12d_V14.00_Doco\12d_Mo       Write     Properties       Finish	del_14_Pr	rojects\D Help	

Tick on User folder and then on Write.

For any computer wanting to use a 12d Model license from a 12d Network CodeMeter, the

updated **dongles.4d** must be placed in the standard search path for the **User** folder, or in the folder pointed to by the environment variable USER\_4D in env.4d, or is the file pointed to by the environment variable **DONGLES\_4D** in **env.4d**.

Using **DONGLES\_4D** means that the **dongles.4d file** could be on a central computer that can be accessed by all the other Client computers.

### Note:

If you don't want to search for a Local dongle at all. simply highlight the **Local** entries and click on the delete icon to delete them.

### WARNING

Projects can have a local *dongles.4d* file and when the project is selected, the local dongles.4d is used before any other dongles.4d. If the local file does not have the correct network information in it then the authorization will fail because **12d Model** is no longer being instructed to use the Network CodeMeter.

dongles.4d and nodes.4d

### 10.4.1.2.2 Using a 12d Dongle Number in a 12d Network CodeMeter

To point to a particular **12d dongle number**, it helps to know the **physical** CodeMeter number that the **12d dongle number** is in.

If you don't already know this, the CodeMeter WebAdmin panel can be used to look inside the Network CodeMeter. See <u>Step 5. Checking the Virtual 12d Virtual Dongles Inside the Network</u> <u>CodeMeter on page 60</u>.

**Note**: if you still don't know what Network CodeMeter the 12d dongle is in, it is possible to find it when using the **Dongles.4d Editor** but you will need to look through the list of physical CodeMeter numbers and see which one contains the required 12d dongle number.

In the Add a New Dongle panel, for the case of using a particular 12d dongle number, select **CodeMeter - network** for **Type** and then click on **Add.** 

📦 Add a new dongle 🛛 🗆 🖾	
Type Codemeter - auto network	Select Choice
Add Finish Help	Wibu - local and auto local Wibu - network Wibu - auto network Codemeter - local Codemeter - auto local Codemeter - network Codemeter - auto network Pause

A new entry with the default name New dongle is added to the bottom of the list.

Dongles.4d Editor		
Add Delete 🐼 🎔	CodeMeter icon	
Wibu Local	Туре	Codemeter - Network
Codemeter Local	Name	New dongle
	Active	true 🗸 🗸
New dongle	Server name	
	# retries	0
	Wait time (seconds)	0.01

Click in the **Name** field and change **New dongle** to whatever you want but it helps to have the 12d dongle number in the name. For example **CodeMeter - ec51470022** 

Next click on the CodeMeter icon at the end of the Server name field.

This will bring up the **CodeMeter Browse** panel that searches for all the 12d Network CodeMeters on the network and for all the **12d dongle numbers** in them, and presents the results in a tree.

TodeMeter Browse	
Server Containers	
Fred.12d.com physical CodeMeter number	
□ 101956	
12d.com 1 12d dongle number	
12d Model - 12d Solutions - ec51470022	
12d Solutions ec51470022	
licensequantity(3)	
checkoutduration(0)	
Larry.12d.com	
<u>⊨</u> · 2-2310233	
□ 101956	
<u> </u>	
fe80::a486:b165:933:e547%21/2-2310278/1	
Select Refresh Finish H	lelp

Scroll down the tree until you find the 12d dongle number you are after and click on it.

This will then write what is called the CMUNC to the Server name field.

#### Aside:

CMUNC is the 12d CodeMeter Universal Naming Convention. An example would be

//server\_name.12d.com/2-2310242/1/16

where **server\_name** is the server name (Fred) with .12d.com added to it, followed by CodeMeter serial number (2-2310242), then the product code (1), and the final part being the instance within that product code that contains the 12d dongle number.

Note: The instance can only be found by using the CodeMeter Browse panel.

To save the information to the **dongles.4d** file, press **Write** to bring up the **Write Setup File "dongles.4d"** panel.

XXX+

🕡 Write Setup File "dongles.4d"	_		×
C Found folder			
c:\12d\14.00\user\dongles.4d			
C Current folder			
E:\4d_documentation\12d_V14.00_Doco\12d_Model_14_Pr	ojects∖D	esign su	RVEY
_ ← User folder			
c:\12d\14.00\user			
C Other folder			
Folder E:\4d_documentation\12d_V14.00_Doco\12d_Mod	lel_14_P	rojects\D	
Write Properties Finish		Help	

Tick on User folder and then on Write.

For any computer wanting to use a **12d Model** license from a **12d Network CodeMeter**, the updated **dongles.4d** must be placed in the standard search path for the **User** folder, or in the folder pointed to by the environment variable USER\_4D in env.4d, or is the file pointed to by the environment variable **DONGLES\_4D** in **env.4d**.

Using **DONGLES\_4D** means that the **dongles.4d** file could be on a central computer that can be accessed by all the other Client computers.

#### WARNING

Projects can have a local *dongles.4d* file and when the project is selected, the local *dongles.4d* is used before any other dongles.4d. If the local file does not have the correct network information in it then the authorization will fail because *12d Model* is no longer being instructed to use the *12d Network CodeMeter*.

For the updating of nodes.4d, see 10.4.2 Installing a nodes.12d15n File on page 76.

## 10.4.2 Installing a nodes.12d15n File

**12d Model** will not create new projects or open an existing project without an authorisation file called **nodes.4d** with valid information in it.

The information inside nodes.4d controls

- (a) which 12d dongles are authorized to run 12d Model
- (b) what version of 12d Model will run for a 12d dongle
- (c) what modules are authorized for a particular 12d dongle

To authorize **12d** *Model* to run with *your 12d dongles*, a file called *nodes.12dxxn* where *xx* is the **12d** *Model* version number, will have been emailed to you by your local **12d** *Model* Reseller.

For example, for 12d Model 15 the file will be called nodes.12d15n

iubject: 12D Auth file for 12d Solutions - ec7239002
Nodes file for : 12d Solutions - ec7239002
The authorization file for 12d Model - is attached to this message.
The self-install procedure which follows is for this one workstation and requires 12d Model installed. After 12d Model version 15 is installed, please double click on the file attachment [nodes.12d15n] to open it and 12d will guide you through.
If this succeeds you do not need to read further.
If this does not work it may be that the mail programme does not allow you to run attachments. In this case, simply save the attached file to your desktop and open (from the right-mouse menu or by double-click). This will start the installation for the nodes file.
Instructions for manual Installation: For version 15 of 12d Model, nodes.12d15n usually goes in the folder "\12d\15.00" and once there it must be renamed to "nodes.4d"
Codemeter dongles require a driver installation which can be obtained here <u>http://www.wibu.com/en/downloads-user-software.html</u> If the product is still not authorized after replacing or updating "nodes.4d" please contact 12D Solutions on (61)(02) 9970 7117 or email <u>sales@12d.com</u>
Installing 12d Model on a computer sets up a Windows file association so that a nodes.12dxxn

Installing **12d Model** on a computer sets up a Windows file association so that a **nodes.12dxxn** file is recognised brings up the **Install a 12d Model xx Nodes File** panel which is used is to install a **nodes.4d** file in the correct location.

In the email, double click on the files *nodes.12dxxn* and the **Opening Mail Attachment** panel comes up.

<del>\_\_\_\_</del>

 $= \not$ 

Ca		
Subject: 12D Auth file for 12d Solutions -	· ec7239002	
🖂 Message 🛛 🥡 nodes.12d15n (21 KB)		
Nodes file for : 12d Solutions		
- ec7239002		
The authorization file for 12d M	pening Mail Attachment X	
The self-install procedure which After 12d Model version 15 is in		l guide you through.
After 12d Woder version 15 is in	You should only open attachments from a trustworthy source.	i guide you through.
If this succeeds you do not need		
in this succeeds you do not need	Attachment: nodes. 12d 15n from 12D Auth file for 12d	
	Solutions - COVID-19; Product 12d Model - ec514700f5 -	
	ec514701e1 Message (HTML)	
If this does not work it may be th		
In this case, simply save		
This will start the inst Click on	Would you like to open the file or envolit to your computer?	
Open	Would you like to open the file or save it to your computer?	
	Open Save Cancel	
Instructions for manual Installati		
For version 15 of 12d Model, not "\12d\15.00" and once there it n	Always ask before opening this type of file	
\12d\15.00 and once there it n		ļ.
Codemeter dongles require a driver	r installation which can be obtained here	
http://www.wibu.com/en/download		
If the product is still not authorized	after replacing or updating "nodes.4d"	
please contact 12D Solutions on (61	)(02) 9970 7117 or email <u>sales@12d.com</u>	

Click on *Open* and then the Install a 12d Model xx Nodes File panel appears.

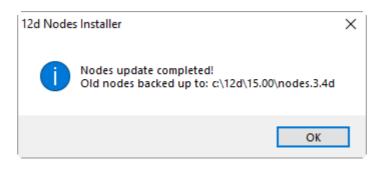
🗊 Ins	tall a 12d I	Model 15 Nodes File -		×
Install	Manage			
Sourc	e:	C:\Users\jg.radon.12D\AppData\Local\Microsoft\Wind	lows\IN	
Opera	ition:	Prepend	~	
Destir	nation:	c:\12d\15.00\nodes.4d		$\bigcirc$
		Install	Canc	el

The choices for **Operation** are:

- **Prepend** if a **nodes.4d** file already exists, the information in the **nodes.12dxxn** file is added to the beginning of the existing nodes file. A backup up copy of the existing **nodes.4d** is created **THIS IS THE NORMAL CHOICE**.
- **Replace** if a **nodes.4d** file already exists, it is replaced by a new **nodes.4d** file with the information in the **nodes.12dxxn** file in it. A backup up copy of the existing **nodes.4d** is created.
- **Append** if a **nodes.4d** file already exists, the information in the **nodes.12dxxn** file is added to the end of the existing nodes file. A backup up copy of the existing **nodes.4d** is created. **THIS IS RARE**.

Select Prepend, Replace or Append and then click Install.

The new/updated *nodes.4d* file is created in the **Destination** folder (default is **C:\12d\xx.00**) and if a **nodes.4d** file already existed, a backup copy of it is made.



*Note* - if you don't have the file *nodes.12dxxn* attached to an email but instead have the file in a folder accessible from your computer, then you can do the following:

If there is a *nodes.12dxxn* file, double click on that file and the **Install a 12d Model Nodes File** panel should appear and you continue with the instructions above.

If that doesn't work, start up **12d Model xx** and click on the **Nodes.4d** button at the bottom of the **Open a Recent Project** panel. This will also bring up the **Install a 12d Model Nodes File** panel and you can browse for the **nodes.12dxxn** file in the **Source** panel field. You can then continue with the instructions above.

For any computer wanting to use a **12d Model** license from a 12d Network CodeMeter, the updated **nodes.4d** is then placed in the standard search path for the **User** folder.

For example, for **12d Model 15** a **nodes.4d** in c:\12d\15.00, or a file pointed to by the environment variable **AUTHORIZATION\_4D** in **env.4d**.

Using **AUTHORIZATION\_4D** means that the **nodes.4d file** can be on a central computer and accessed by all the other Client computers.

Now that the **dongles.4d** file and the **nodes.4d** file have been updated, any computer on the network that has the CodeMeter drivers installed and has the updated dongles.4d and nodes.4d file should be able to obtain a **12d Model** license from a Network CodeMeter. That is, it becomes a **12d CodeMeter Client**.

This ends the notes for setting up the 12d CodeMeter Server and any 12d CodeMeter Clients.

# 11 CodeMeter Control Center & WebAdmin

The **CodeMeter Control Center** is used on a particular computer to display which CodeMeters are on the computer the Control Centre is being run on, to stop and start the **CodeMeter Runtime Server** service on the computer, Certify CodeMeters on the computer and to update the contents of any CodeMeters on the computer. It can also bring up the **CodeMeter WebAdmin** panel.

The **CodeMeter WebAdmin** can do whatever the Control Centre can do but it can work on CodeMeters on **ANY** computer that are visible on the network and it has permission to access.

To bring up the **CodeMeter Control Center**, click on the **CodeMeter** icon that was installed on your task bar.

CodeMeter Control Center		22
File Process View Help		
License Events Borrow		
CmStick 2-2310242	Name:	
	Serial: 2-2310262	
	Version: CmStick 2.04	6
	Capacity: 93 % free (367400 Bytes)	
	Status: 💿 🞯 Disabled	
	Enabled until unplugged	
	C Senabled	
	License Update Eject Change Password	
CodeMeter is started.		WebAdmin

Options under the **Process** menu can start and stop the **CodeMeter Runtime Server** service on the computer. See <u>11.1 Stopping & Starting the CodeMeter Runtime Server on page 80</u>)

The License Update button is for reporting on, and updating the information about **12d Model** licenses for any CodeMeter (Network or Standalone) attached to **this** computer. See <u>11.5</u> Updating Licenses in Network CodeMeters on page 111).

The **WebAdmin** button brings up the **CodeMeter WebAdmin** panel which can display information about **12d Model** licenses for **any** CodeMeter (Network or Standalone) that is visible on the computer network. See <u>11.8 Which Version of WebAdmin? on page 120</u>.

## 11.1 Stopping & Starting the CodeMeter Runtime Server

Some changes to CodeMeter configurations on a computer require that the **CodeMeter Runtime Server** service is restarted on the computer. In these cases, there is usually a message to say **Changes only take effect after restarting CodeMeter**.

The stopping and starting of the CodeMeter Runtime Server on a particular computer can be done from running **CodeMeter Control Center** on that computer, or **WebAdmin** can be used to stop and start the CodeMeter Runtime Server on any computer that is has access to and adequate permissions.

See

11.1.1 CodeMeter Runtime Server - Control Centre on page 81

11.1.2 CodeMeter Runtime Server - WebAdmin on page 84

### 11.1.1 CodeMeter Runtime Server - Control Centre

Click on the **CodeMeter** icon that was installed on your task bar to bring up the **CodeMeter Control Center**.



Clicking on the **WebAdmin** button on the **CodeMeter Control Center** brings up the **CodeMeter WebAdmin**.

#### For WebAdmin 6:

To stop the CodeMeter Runtime Server service, click on *Process* >*Stop CodeMeter Service* in the CodeMeter Control Center.

CodeMeter Control Center	ter and daught, 40	×
File Process View Help		
Liq 🕕 Defragment License Memories		
Update Time Certificates		
Repair Hardware Configuration	Name:	
<ul> <li>Start CodeMeter Service</li> <li>Stop CodeMeter Service</li> </ul>	Serial: 2-2310262	
	Version: CmStick 2.04	6
	Capacity: 93 % free (367400 Bytes)	
	Status: 🔘 🞯 Disabled	
	🔘 🥝 Enabled until unplu	igged
	Inabled	
Licens	EUpdate Eject Change Pass	word
CodeMeter is started.		WebAdmin

You will be asked to confirm that this is to be done.

The **CodeMeter Control Center** will then reappear with no CodeMeters being found on the computer and if you look in the Windows Task Manager, the **CodeMeter Runtime Server** service will be shown as **Stopped**.

le Option	ns View	Help					
pplications	Processes	Services	Performance	Networking	Users		
Name	*		PID	Descri	iption	Status	Group
		SUS 19 64		MICTOS	SOTC INET FRAMEWORK INGEN V	stopped	N/A
cir_opun CodeMet	ter.exe	.30319_04			Meter Runtime Server	Stopped	N/A

To start the CodeMeter Runtime Server service, click on *Process >Start CodeMeter Service* in the CodeMeter Control Center.

C C	odeMeter (	Control Center	X
File	Process	View Help	
	c (iii) Defra (iii) Upda (iii) Repai	View Help agment License Memories ate Time Certificates iir Hardware Configuration CodeMeter Service CodeMeter Service	
Cod	leMeter is s	stopped.	Admin

You will be again be asked to confirm that it is to be done.

After a short time, the **CodeMeter Control Center** panel will then reappear displaying the CodeMeters on this computer.

S CodeMeter Control Center			22
File Process View Help			
License Events Borrow			
CmStick 2-2310262	Name:		
	Serial:	2-2310262	9
	Version:	CmStick 2.04	6
CodeMeter number	Capacity:	93 % free (367400 Bytes)	
	Status:	Oisabled	
		Enabled until unplugged	
		Enabled	
	License Update	Eject Change Password	
CodeMeter is started.			WebAdmin

If you look in the Windows Task Manager, the **CodeMeter Runtime Server** service will be shown as **Running**.

 $\sim$ 

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File	Windows Task Manager • Options View Help				
Ap	pplications Processes Services Pe	rformance Netv	working Users		
	Name	PID	Description	Status	Group
	Name A	PID	Description Microsoft_NET_Framework NGEN v	Status	Group
		PID 12464			

Note: There may be more than one **CodeMeter** attached to the computer. For example

CodeMeter Control Center			×
File Process View Help			
License Events Borrow	CodeMeter I	numbers	
CmStick 2-2310262	Name:		
CmStick 2-2310278	Serial: 2-2	310262	9
	Version: Cm	Stick 2.04	3
	Capacity: 93	% free (367400 Bytes)	
	Status: 🔘	S Disabled	
	0	😋 Enabled until unplugged	
	0	😋 Enabled	
	License Update Ej	ect Change Password	
CodeMeter is started.			WebAdmin

Warning: Access to all the CodeMeters on the computer is stopped by stopping the CodeMeter Runtime Server service.

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### 11.1.2 CodeMeter Runtime Server - WebAdmin

To bring up the **CodeMeter WebAdmin** panel, click on the **WebAdmin** button on the **CodeMeter Control Center**.

#### For WebAdmin 6:

For instructions on how to select and see CodeMeters on a particular Network Server, see <u>11.4.1 Getting Info on CodeMeters on a Particular Server - WebAdmin 6 on page 98</u>

Once the required Computer is selected in the **CodeMeter WebAdmin** panel, to **stop** the Network Server, click on the **Configuration >Server >Server access** menu, then select **Disable** and finally click on **Apply**.

Server Access	× +				-	- 🗆
-)→ C' û	localhost:22350/configuration/server_a	ccess.html		•••	⊠ ☆	\ ⊡
<b>UIBU</b> SYSTEMS	CodeMet	er V	/ebAdm	in		C⊶
Dashboard Container	<ul> <li>License Monitoring &lt; Diagr</li> </ul>	nosis ~	Configuration ~	Info	0	*
Server Configuration S	Server Access		Basic	>	😮 🔤 En	glish (US)
Server Access	License Access Permissions	(	Server	>	Server Access	
-Network Server			Advanced		License Access	Permiss
Disable     Disable     CmWAN Server						
O Disable						
Enable CmWAN Port *:	22351					
(*) Changes only take effe	Apply F	Restore [	Defaults			

The **CodeMeter Control Center** will then reappear with no CodeMeters being found on the computer and if you look in the Windows Task Manager, the **CodeMeter Runtime Server** service will be shown as **Stopped**.

le Option	s View	Help					
pplications	Processes	Services	Performance	Networking	Users		
Name	^		PID	Descri	ption	Status	Group
clr. optimi	zation_v4.0.	30319_64		Micros	oft .NET Eramework NGEN v.	Stopped	N/A
CodeMete	er.exe			CodeN	leter Runtime Server	Stopped	N/A

To start the CodeMeter Runtime Server service, click on the Configuration >Server >Server access menu, then select Enable and finally click on Apply

 $\rightarrow$ 

$ ightarrow$ C $rac{1}{2}$	localhost:22350/configuration/server_access.htm	l	6	ס ב	III\ [
SYSTEMS	CodeMeter	VebAdmi	n		C
shboard Containe	r ~ License Monitoring ~ Diagnosis ~	Configuration ~	Info		4
Server Configuration	Server Access	Basic	>	😮 🔤 Eng	lish (US
Server Access	License Access Permissions	Server	>	Server Access	$\frown$
-Network Serve	20	_ Advanced		License Access I	Permis
<ul> <li>Disable</li> <li>Enable</li> <li>Network Port *:</li> </ul>	22350				
-CmWAN Serve	Г				
O Disable					
<ul> <li>Enable</li> </ul>					
CmWAN Port *:	22351				

(\*) Changes only take effect after restarting CodeMeter

You will be again be asked to confirm that it is to be done.

If you look in the Windows Task Manager, the **CodeMeter Runtime Server** service will be shown as **Running**.

File	Options View Help				
Ap	pplications Processes Services Pe	rformance Netv	vorking Users		
	Name	PID	Description	Status	Group
	dr optimization v4.0.30319 64		Microsoft .NET Framework NGEN v	Stopped	N/A
-				P	21/2
	CodeMeter.exe	12464	CodeMeter Runtime Server	Running	N/A

Warning: Access to all the CodeMeters on the computer is stopped by stopping the CodeMeter Runtime Server Service.

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## 11.2 Port Address for CodeMeter Communication

For CodeMeter WebAdmin 6, see <u>11.2.1 Port Address - WebAdmin 6 on page 86</u> For CodeMeter WebAdmin 5, see <u>11.2.2 Port Address - WebAdmin 5 on page 87</u>.

### 11.2.1 Port Address - WebAdmin 6

The **CodeMeter License Server** uses a specific IP port (defaulted on 22350) to communicate with your computer and the network. This network port is registered at **IANA** (Internet Assigned Numbers Authority) and is uniquely assigned for CodeMeter® communication.

Please make sure that your firewall is not blocking this port.

Enable the used **IP port 22350** and make sure it is accessible by CodeMeter®, *i.e.* share the communication for this IP port.

The IP port used for communication can be changed by the CodeMeter WebAdmin panel.

Click on the Configuration >Server >Server access menu.

S WebAdmin   Server Access	× +				- 🗆 ×
← → ⊂ ŵ	i localhost:22350/configuration/ser	ver_access.html	•••	⊠ ☆	\ ⊡ ≡
SYSTEMS	CodeMe	eter We	bAdmin		C₁
Dashboard Container	<ul> <li>License Monitoring &lt; [</li> </ul>	Diagnosis ~	Configuration ~	Info	*
Server Configuration	Server Access		Basic	→ 0	📟 English (US) 🗸
Server Access	License Access Permissions		Server	> Se	erver Access
-Network Server	r		Advanced	Lie	cense Access Permis
<ul> <li>Disable</li> <li>Enable</li> <li>Network Port *:</li> </ul>	22350				
CmWAN Server					
<ul> <li>Disable</li> <li>Enable</li> <li>CmWAN Port *:</li> </ul>	22351				
(*) Changes only take eff	Apply fect after restarting CodeMeter	Restore Defa	ults		

Change the **Network Port:** field to the number of the port that you want the CodeMeter to communicate over, and then press **Apply**.

**Important:** For the change to take affect, you need to stop and then restart the **CodeMeter Runtime Server** service. See <u>11.1 Stopping & Starting the CodeMeter Runtime Server on</u> <u>page 80</u>.

### 11.2.2 Port Address - WebAdmin 5

The **CodeMeter License Server** uses a specific IP port (defaulted on 22350) to communicate with your computer and the network. This network port is registered at **IANA** (Internet Assigned Numbers Authority) and is uniquely assigned for CodeMeter® communication.

Please make sure that your firewall is not blocking this port.

Enable the used IP port 22350 and make sure it is accessible by CodeMeter®, *i.e.* share the communication for this IP port.

The IP port used for communication can be changed by the CodeMeter WebAdmin panel.

Click on the **Configuration >Server** tab.

Home         Content         Server         Configuration         Diagnosis         Info         Help           Network         Server         Proxy   Access Control   Certified Time   WebAdmin   Backup   Borrowing         Help
Network Server Proxy Access Control Certified Time webAdmin Backup Borrowing
Server
Bind Address: All (Default)
Run Network Server: 🗹
Network Port *: 22350
Run CmWAN Server:
CmWAN Port *: 22351
Apply Default
(*) Changes only take effect after restarting CodeMeter

Change the **Network Port:** field to the number of the port that you want the CodeMeter to communicate over, and then press **Apply**.

**Important:** For the change to take affect, you need to stop and then restart the **CodeMeter Runtime Server** service. See <u>11.1 Stopping & Starting the CodeMeter Runtime Server on</u> <u>page 80</u>.

# 11.3 Certifying CodeMeters

Updating the **Certified Time** in a **CodeMeter** must be done at least every two month over the Internet and Certifying needs communication between the **CodeMeter** and a **Certified Wibu Time Server**.

So for Certification to occur, a computer that can access the **CodeMeter** must also **have access to the Internet at least every two months** so it can run the Certification.

Certifying a CodeMeter can be done

- (a) manually from inside 12d Model itself
   See <u>5.1 Certifying CodeMeters from 12d Model on page 30</u>
- (b) automatically by 12d Model See <u>5.2 Automatically Certifying CodeMeters from 12d Model on page 32</u>
- (c) outside of 12d Model when the CodeMeter is on the computer you are using outside Using the CodeMeter Control Centre - see <u>5.3 Certifying CodeMeters Using Control</u> <u>Center on page 33</u>.

or

(d) outside 12d Model when the CodeMeter is NOT on the computer your are using
 It is possible to certify CodeMeters that are on other computers but this is usually only
 needed by Administrators. See <u>11.3.1 Certifying CodeMeters Using WebAdmin on page 89</u>

### **Important Note**

To display and update the **Certified Time** in the **CodeMeter**, you need access over the Internet to a **CodeMeter Time Server** (see <u>11.3.2 Time Servers for Certified Time on page 95</u>) and this Internet communication must be allowed to be done through an **IP port** (see <u>10 Network</u> <u>CodeMeters on page 51</u>).

Please contact your 12d Model Reseller if you are having problems certifying your CodeMeter.

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## 11.3.1 Certifying CodeMeters Using WebAdmin

If the **CodeMeter** is **NOT** attached to your current computer you need to use the **CodeMeter WebAdmin** panel which is brought up by clicking on the **WebAdmin** button on the **CodeMeter Control Center**.

SodeMeter Control Center	- 🗆 X
File Process View Help	
License Events	
	No CodeMeter License information available. No CmContainer found.
CodeMeter is started.	WebAdmin

For **CodeMeter WebAdmin 6**, see <u>11.3.1.1 Certifying CodeMeters Using WebAdmin 6 on</u> page 90

For **CodeMeter WebAdmin 5**, see <u>11.3.1.2 Certifying CodeMeters Using WebAdmin 5 on</u> page 94.

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### 11.3.1.1 Certifying CodeMeters Using WebAdmin 6

After getting up **CodeMeter WebAdmin** panel up, on the **Dashboard** you need to set the **Current Server** to the server that the CodeMeter is on.

To get a list of servers, click on the Current Server: field at the bottom of the Dashboard and you will get a list of the servers found.

😋 WebAdmin   Dashboard	× +			:
$ ightarrow$ C $rac{1}{2}$	(i) localhost:22350/index.html	•	⊠ ☆	III\ 🗉
	CodeMeter We	bAdmin		C⊶
hboard Container	- 🗸 License Monitoring 🗸 Diagnosis 🗸	Configuration ~	Info	*
Dashboard			0	📟 English (US) 🗸
Current Server:	RanchDocco			
IP-Address:	RanchDocco			
Operating System:	Microsoft Windows 10 Enterprise, 64-Bit			
Server Startup:	2018-11-18 05:35:43			
Server Version:	Version 6.30a of Jul/28/2016 (Build 2266)			
Runtime Version:	6.30a			

\_\_\_\_\_

📀 WebAdmin   Dashboard	× +			- 0	Х
← → C' ŵ	i localhost:22350/index.html	••	• ⊠ ☆	\ ⊡	≡
	CodeMet	er WebAdmin		C <sup>∞</sup>	^
Dashboard Container	✓ License Monitoring ✓ Dia				
🚯 Dashboard			0	📕 English (US)	~
Current Server: IP-Address: Operating System: Server Startup: Server Version: Runtime Version:	RanchDocco 151 Microsoft Windows 10 Enterpris 2018-11-18 05:35:43 Version 6.30a of Jul/28/2016 ( 6.30a				l
Server found:					
localhost (127.0.0.7)					
nas.12d.com (	.10)				
server.12d.com (1	92.168.68.252)				
Use IP-Address					
	Apply Cancel				
Current Server: localho	st (127.0.0.1) 🙆 🏾 💷	WebAdmin Vers	ion: <b>6.30</b>		

If there is more than one **CodeMeter** on that computer/server, select the one that you want to examine and click on **Apply**.

The information about the selected Server will be displayed, including any CodeMeters that are found on the server and the current sessions on them.

				_
<b>WIBU</b>	CodeMeter Web	Admin		C
SYSTEMS				
hboard Container	<ul> <li>License Monitoring</li></ul>	<ul> <li>Info</li> </ul>		*
				😧 🔤 English (US)
Dashboard				English (US)
		Cassians (2)		
Current Server:	SERVER	Sessions (2)		4
IP-Address:	252	docco.12d.com	101956	12d Model - Stock - 12d Solutions - e
Operating System:	Microsoft Windows Server 2012 R2 Standard, 64-Bit	docco.12d.com	: 1	c51470113
Server Startup:	2018-10-15 16:28:48			12d Model - Stock
Server Version:	Version 6.40a of Dec/22/2016 (Build 2402)	docco.12d.com	m 101956 : 1	- 12d Solutions - e c51470113
Runtime Version:	6.40a			0115

If there is more than one **CodeMeter** (**CmContainer**) on that computer/server, select the one that you want by Walking right on the **Container** menu.

S WebAdmin   □ → C û	Dashboard	× +	server.12d.com:223	50/index.html			⊠ ☆	
<b>UIBU</b> SYSTEMS			C	CodeMe	ter WebA	dmin		
ashboard Co	ontainer ~	License	e Monitoring ~	Diagnosis ~	Configuration ~	Info		
Dashboard A	All Container	>	<no name=""></no>	2-1387203				0
		- (	<no name=""></no>	2-2310233				
<b>A</b> 10		0.51	<no name=""></no>	2-2310242		Sessions (2)		
Current Serv	/er:	SEF	<no name=""></no>	3-4025920				120
IP-Address: 68.252 Operating System: Microsoft Window				2012 R2 Stand	ard, 64-Bit	docco.12d.com	101956 : 1	- 1 c51
Server Start	up: 20	18-10-1	5 16:28:48				101055	120
Server Versi	on: Ve	ersion 6.4	40a of Dec/22/2	016 (Build 240	2)	docco.12d.com	101956 : 1	- 1 c51
Runtime Ver	rsion: 6.	40a						CS.

Information about the selected CodeMeter is then displayed.

Click on the **CmContainer Info** button to expand the information displayed.

-	× +			- 0
$) ightarrow$ C $rac{1}{2}$	i server.12d.com:22350/container/cm	container_details.html?BoxSerial=2-2310233	⊠ ☆	lii\ (
SYSTEMS	CodeN	leter WebAdmin		C
ashboard Container	<ul> <li>License Monitoring - Diagnosis</li> </ul>	✓ Configuration ✓ Info		,
All Container <b><no b="" nar<=""></no></b>	me> (2-2310233)		0 🔤	English (U
state	ie>	2-2310233	CmStick	2.04
▲ Licenses	s CmContainer Info V Backup & F	Restore		
▲ 100003 Bur	ndling Articles			
•• 100005 Dui				
Product Code Name		Unit Counter Valid Unti	License Quantity	Feature Ma
	te	Unit Counter Valid Until n/a n/a	,	Feature Ma 0x1
Product Code Name 1 SecuriKey Li	ite d.com		,	
Product Code Name 1 SecuriKey Li			1	0x1
Product Code Name 1 SecuriKey Li 101956 120 Product Code Name		n/a n/a	1 License Quantity	0x1
Product Code Name 1 Securikey Li 101956 12c Product Code Name 1 12d Model -	d.com	n/a n/a Unit Counter Valid Until	1 License Quantity 5	0x1 Feature Ma

The current **Certified time** for that **CodeMeter** will be displayed.

🕞 WebAdmin   Container	× +		- 0
→ C' <sup>1</sup> / <sub>0</sub>	i server.12d.com:223	350/container/cmcontainer_details.html?BoxSeria	I=2-2310233 ···· 🗵 ✿
	(	CodeMeter WebA	dmin C <sup>v</sup>
shboard Container ~	License Monitoring ~	Diagnosis v Configuration v	Info 🔸
All Container <b><no b="" name<=""></no></b>	> (2-2310233)		😮 📑 English (US
<pre>no name:</pre>	>	2-2310233	CmStick 2.04
V Licenses	<ul> <li>CmContainer Info</li> </ul>	V Backup & Restore	
Name		<no name=""></no>	
Serial Number		2-2310233	
CmContainer Type		CmStick 2.04	click to update the
First Device		I: (No Flash)	Certified time
Status		Enabled	
System Time (PC)		2018-12-23 16:22:51	
System Time (CmContain	ier)	2018-12-23 16:22:48	
Certified Time (CmContai	ner)	2018-12-05 14:55:29	(
Free Memory		92 % (363.656 Bytes)	
rrent Server: SE	RVER ( .25	2) 🚱 🕕	WebAdmin Version: 6.40

The **Certified time** for that **CodeMeter** can be updated to the current date by clicking on the **Update** button.

If you have permission to do so, the **Certified time** for that **CodeMeter** can be updated to the current date by clicking on the **Update** button.

Please contact your **12d Model Reseller** if you are having problems certifying your **CodeMeter**.

#### **Important Note**

To display and update the **Certified Time** in the **CodeMeter**, you need access over the Internet to a **CodeMeter Time Server** (see <u>11.3.2 Time Servers for Certified Time on page 95</u>). This Internet communication is through a set IP port (see <u>10 Network CodeMeters on page 51</u>).

### 11.3.1.2 Certifying CodeMeters Using WebAdmin 5

After getting up **CodeMeter WebAdmin** panel up, on the **Home** tab set the **Host Name**: field to the name of the computer or server that the **CodeMeter** to be certified is on, and then go to the **Content >CmContainer** tab.

Code	Meter WebAdmin	1	C⋈
Home Cont		Diagnosis Info	Help
CmContainer	Licenses   User Data   Backup/Resto	re	
	CmContainer:	2-2310278	$\checkmark$
	Name:	<no name=""></no>	
	CmContainer Type:	CmStick 2.04	
	First Device:	No drive assigned (H	ID)
	Status:	Disabled	
Certified tir	me	📀 Enabled until Ur	plugged (click to update the Certified time
		• Enabled	Certified time
	System Time (PC):	2015-09-03 17:40:4	7
	System Time (CmContainer):	2015-09-03 17:40:4	17
(	Certified Time (CmContainer):	2015-09-03 17:13:3	Update
	Free Memory:	93 % (367.432 Byte	s) Defragment

If there is more than one **CodeMeter** (**CmContainer**) on that computer/server, select the one that you want to examine in the **CmContainer**: field.

The **Certified time** for that **CodeMeter** can be updated to the current date by clicking on the **Update** button.

Please contact your **12d Model Reseller** if you are having problems certifying your **CodeMeter**.

#### **Important Note**

To display and update the **Certified Time** in the **CodeMeter**, you need access over the Internet to a **CodeMeter Time Server** (see <u>11.3.2 Time Servers for Certified Time on page 95</u>). This Internet communication is through a set IP port (see <u>10 Network CodeMeters on page 51</u>).

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### 11.3.2 Time Servers for Certified Time

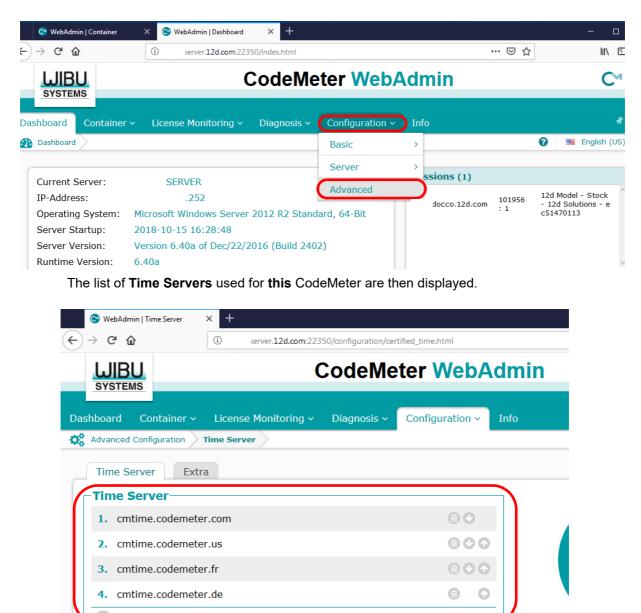
When you certify a **CodeMeter** it searches the internet for a **CodeMeter Time Server** to update the **Certified Time** in the CodeMeter.

For CodeMeter WebAdmin 6, see 11.3.2.1 Time Servers - WebAdmin 6 on page 95

For CodeMeter WebAdmin 5, see 11.3.2.2 Time Servers - WebAdmin 5 on page 96.

### 11.3.2.1 Time Servers - WebAdmin 6

For a particular **CodeMeter** on a Server, the Internet or IP addresses of the **CodeMeter Time Servers** that are searched to set the **Certified Time** are given in the **Configuration >Certified Time** tab of the **CodeMeter WebAdmin** panel.



The Time Servers list is searched in order from the top to the bottom.

Seconds

20

Time Out:

Servers in the list are added or removed using the **add** or **remove** buttons, and a highlighted entry in the list is moved up or down with the **up** and **down** buttons.

Clicking **Apply** saves these entries in the Windows Registry of the Server that the CodeMeter is on.

### 11.3.2.2 Time Servers - WebAdmin 5

For a particular **CodeMeter** on a Server, the Internet or IP addresses of the CodeMeter Time Servers that are searched to set the **Certified Time** are given in the **Configuration >Certified Time** tab of the **CodeMeter WebAdmin** panel.

CodeMeter WebAdmin	M
Home Content Server Configuration Diagnosis Info	Help
Network   Server   Proxy   Access Control Certified Time WebAdmin   Backup   Borrowing	
Certified Time	
Time Server: cmtime.codemeter.com cmtime.codemeter.us cmtime.codemeter.fr cmtime.codemeter.de	
add     remove     up     down       Time Out:     20     sec       Apply     Default	

The Time Servers to search are given in the list labelled **Time Server**: and the list is searched in order from the top to the bottom.

The Timer Servers can be specified by either an Internet address or an IP address.

Servers in the list are added or removed using the **add** or **remove** buttons, and a highlighted entry in the list is moved up or down with the **up** and **down** buttons.

Clicking **Apply** saves these entries in the Windows Registry of the Server that the CodeMeter is on.

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## 11.4 Monitoring and Cancelling Licenses

Clicking on the **WebAdmin** button brings up the **CodeMeter WebAdmin** panel which can display information about **12d Model** licenses for **any** CodeMeter (Network or Standalone) that is visible on the computer network.

For instructions on finding information about CodeMeters on a particular Network Server, see

11.4.1 Getting Info on CodeMeters on a Particular Server - WebAdmin 6 on page 98

11.4.3 Getting Info on CodeMeters on a Particular Server - WebAdmin 5 on page 105.

11.4.1 Getting Info on CodeMeters on a Particular Server - WebAdmin 6 Clicking on the **WebAdmin** button brings up the **CodeMeter WebAdmin** panel which can display information about **12d Model** licenses for **any** CodeMeter (Network or Standalone) that is visible on the computer network.

The panel comes up with the **Dashboard** tab displaying information about one of the CodeMeters on **this** computer.

To get information about CodeMeters on another Server, you need to set the **Current Server** to the server that you wish to exam **CodeMeters** on.

To get a list of servers, click on the Current Server: field at the bottom of the Dashboard:

😋 WebAdmin   Dashboard	× +			- 0	×
$ ightarrow$ C' $\mathbf{\hat{C}}$	(i) localhost:22350/index.html	•••	⊠ ☆	\ ⊡	≡
<b>LJIBU</b> SYSTEMS	CodeMeter We	bAdmin		C⊶	
shboard Container	r 🗸 License Monitoring 🗸 Diagnosis 🗸	Configuration ~	Info	*	
Dashboard			0	English (US)	~
0	Duran				
Current Server:	Docco				
IP-Address:	.151				
Operating System:	Microsoft Windows 10 Enterprise, 64-Bit				
Server Startup:	2018-11-18 05:35:43				
Server Version:	Version 6.30a of Jul/28/2016 (Build 2266)				
Runtime Version:	6.30a				

S WebAdmin   Dashboard	× +			- 🗆 ×
$\leftarrow$ $\rightarrow$ C' $\textcircled{a}$	i localhost:22350/index.html		⊌ ☆	
<b>LJIBU</b> SYSTEMS	CodeM	eter WebAdmi	n	См
Dashboard Container	<ul> <li>License Monitoring </li> </ul>	Diagnosis ~ Configuration		*
Dashboard				English (LIS)
Current Server: IP-Address:	Docco .151	If there is more that computer/ you want to ex	server, select	the one that
Operating System: Server Startup: Server Version: Runtime Version:	Microsoft Windows 10 Enter 2018-11-18 05:35:43 Version 6.30a of Jul/28/201 6.30a			
Server found:				
localhost (127.0.0.7)	/			
nas.12d.com (	.10)			
server.12d.com (	.252)			
Use IP-Address				
	Apply Cance			
Current Server: localho	ost (127.0.0.1) 🚱 🛛 💷	WebAdmin V	ersion: 6.30	

#### **Important Note:**

It is possible to have different versions of **WebAdmin** installed on different Servers. So depending on which Server you are looking at, you may now need to swap between the notes for **WebAdmin 6** and **WebAdmin 5**.

For instructions on Monitoring and Cancelling Licenses on this Server, see

<u>11.4.2 Monitoring and Cancelling Licenses - WebAdmin 6 on page 100</u> <u>11.4.4 Monitoring and Cancelling Licenses - WebAdmin 5 on page 107</u>.

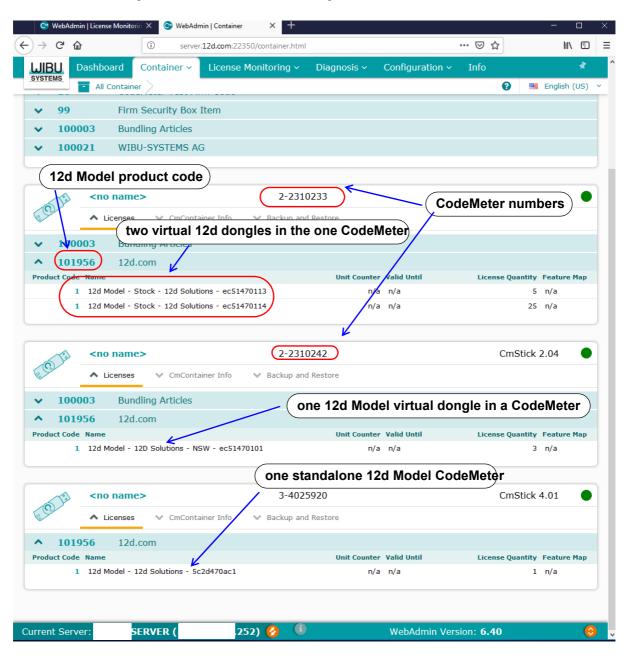
### 11.4.2 Monitoring and Cancelling Licenses - WebAdmin 6

The information about a selected Server will be displayed, including any CodeMeters that are found on the server and the current sessions on them.

<b>WIBU</b> SYSTEMS	CodeMeter W	ebAdmin	$\sim$
Dashboard Containe	<sup>-</sup> → License Monitoring → Diagnosis → Configura	ation ~ Info	English (US)
Current Server:	SERVER	Sessions (2)	
IP-Address:	.252 Microsoft Windows Server 2012 R2 Standard, 64-Bit	docco.12d.com 101956	12d Model - Stock - 12d Solutions - e c51470113
			12d Model - Stock - 12d Solutions - e
Operating System: Server Startup:	2018-10-15 16:28:48		

To find out information about all the **CodeMeters** (**CmContainer**) on that computer/server, select the **Container >All Containers** option, and expand the **12d Model product code 101956** for each CodeMeter to show any **virtual 12d dongles** in a CodeMeter or any **standalone** CodeMeters.

The example below shows a Server with three CodeMeters attached to it: one with a single virtual 12d dongle, one with two virtual 12d dongles and one which is a standalone CodeMeter.



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If there is more than one **CodeMeter** (**CmContainer**) on the computer/server, information about just one of them can be obtained by walking right on the **Container >All Container** menu and selecting the required CodeMeter number.

$) ightarrow$ C $rac{1}{2}$	(i)	server.12d.com:223	50/index.html		•	⊠ ☆		
SYSTEMS		C	CodeMe	ter WebA	dmin			
ashboard Container	Licens	e Monitoring ~	Diagnosis ~	Configuration ~	Info			
Dashboard All Contair	er >	<no name=""></no>	2-1387203				0	
	- (	<no name=""></no>	2-2310233					
Current Communi	05	<no name=""></no>	2-2310242		Sessions (2)			
Current Server: IP-Address:	SE	<no name=""> 8.252</no>	3-4025920		docco.12d.com	101956 : 1	- 12	Mode
Operating System:		Windows Server	2012 RZ Stand	ard, 64-Bit			C514	47011
Server Startup: Server Version:		.5 16:28:48 40a of Dec/22/2	016 (Build 240	2)	docco.12d.com	101956 : 1	- 12	Mode d Sol 47011
	6.40a	104 01 DCC/22/2	.010 (Duild 210	-)		. 1	c514	47

Information about the selected CodeMeter is then displayed. Expanding the **12d Model product code 101956** will show any **virtual 12d dongles** in a CodeMeter.

	server 12d com:22350/container/cmco	ntainer details.html?BoxSerial=2-2310233	⊠ ☆	lii\ (
	server.120.00m.22550/container/cirico		N O	inv v
SYSTEMS	CodeMe	eter WebAdmin		C
SYSTEMS				
shboard Container - Licen	se Monitoring ~ Diagnosis ~	Configuration ~ Info		
All Container > <no name=""> (2-231</no>	.0233)		Ø	📟 English (U
		2-2310233	CmS	itick 2.04
<no name=""></no>		2-2310235	CIIIS	SUCK 2.04
▲ Licenses	nContainer Info 🛛 💙 Backup & Res	tore		
100003 Bundling Artic	cles			
Product Code Name		Unit Counter Valid Until	License Qua	intity Feature Ma
1 SecuriKey Lite		n/a n/a		1 0x1
<b>▲ 101956</b> 12d.com				
Product Code Name		Unit Counter Valid Until	License Qua	antity Feature Ma
1 12d Model - Stock - 12d	Solutions - ec51470113	n/a n/a		5 n/a
1 12d Model - Stock - 12d	Solutions - ec51470114	n/a n/a		25 n/a
120110001 01001 120				

And as discussed in the Certifying section, clicking on the **CmContainer Info** button expands the information displayed for the **CodeMeter**.

To see information about the total number of licenses available for each **virtual 12d dongle**, and the number of licenses currently being used and how many are left to use, click on the **License Monitoring >All Licenses** menu.

😋 WebAdmin	Container	× +			- 0
↔ → ⊂ ŵ		i server.12d.com:223	50/container/cmcontainer_details.html?BoxSerial=2-2310233	⊠ ☆	III\ 🗊
		C	odeMeter WebAdmin		C™
SYSTEMS	5				
Dashboard	Container ~	License Monitoring ~	Diagnosis ~ Configuration ~ Info		*
All Container	<pre><no name<="" pre=""></no></pre>	All Licenses		0	📕 English (US) 🗸
( Ja	<no name=""></no>	Sessions	2-2310233	CmS	tick 2.04
E GI	V Licenses	<ul> <li>CmContainer Info</li> </ul>	ℽ Backup & Restore		
Name			<no name=""></no>		
Infor	rmation ab	out the selected C	CodeMeter is then displayed.		

😋 WebAdmin | License Monitorin 🗙 🕂 (←) → 健 ŵ **i** … ⊠ ☆ |||\ ⊡ server.12d.com:22350/license\_monitoring.html ≡ **CodeMeter WebAdmin WIBU** См SYSTEMS License Monitoring ~ Diagnosis ~ Configuration ~ 4 Info All Licenses 0 English (US) Available Licenses on CEDVED

Ava	liable Lic	censes on SERVER				
•	10	CodeMeter Test Firm Code				
•	99	Firm Security Box Item				
•	100003	Bundling Articles				
•	100021	WIBU-SYSTEMS AG				
^	101956	12d.com				
Produ	ict Code 🌲 Nam	e	🕴 Feature Map 🔶 Lice	ense Quantity ≑	Used 🌲	Available 🍦
	1 120	Model - 12D Solutions - NSW - ec51470101	-	3	0	3
	1 120	Model - Stock - 12d Solutions - ec51470113	-	5 🔇	2	3
	1 120	Model - Stock - 12d Solutions - ec51470114	-	25	0	25
	1 120	Model - 12d Solutions - 5c2d470ac1	-	1	0	1

Monitoring and Cancelling Licenses

😋 WebAdmin   License	Monitorin × +					- 🗆 >
← → ⊂ ŵ	i server.12d.com:2235	0/license_monitoring.	html	⊌	☆	III\ 🗊
<b>WIBU</b> SYSTEMS	Coc	leMeter	WebAdm	in		C⊶
Dashboard Conta	iner ~ License Monitoring ~	Diagnosis ~	Configuration ~	Info		*
All Licenses	enses on 'BUILD-SI	RVER'		Nur		English (US) ~ Censes free
<ul> <li>✓ 10</li> <li>One 12d Mode</li> </ul>	CodeMeter Test Firm Code el virtual dongle in a Code	eMeter	Numbe	er of licens	es being	used
<ul><li>✓ 100003</li><li>✓ 100021</li></ul>	(two 12d Model virtual WIBU-SYSTEMS AG		CodeMeter			
<b>^</b> 101956	12d.com	each virtua	al 12d dongle		4	
Product Code 🔶 Name	e	🔶 Fe	ature Map 🐥 License Qu	antity 🗘	Used ≑	Available 🌲
1 12d	Model - 1 Solutions - NSW - ec51	470101 -		(3)	0	3
1 12d	Model - Stock - 12d Solutions - ec5	1470113 -		5 <	2	3
1 12d	Model - Stock - 12d Solutions - ec5	1470114 -		25	0	25
1 12d	Model - 12d Solutions - 5c2d470ac1	-		1	0	1
	Information la	st undated on 20	018-12-25 11:29:20		$\bigcirc$	Ú

Information last updated on 2018-12-25 11:29:20

Clicking on the Product Code 1 for a CodeMeter showing some licenses are being used will (for example ec514470113), displays the user name of the user of each license (session).

If you have the required permission, the session can be terminated by selecting Cancel at the end of the session row and in the Action column.

😋 WebAdmin   License Monitorin 🗙	SebAdmin   License Monitorin × +				- 🗆 ×
$( \leftrightarrow ) \rightarrow $ C $( \frown )$	) server. <b>12d.com</b> :22350/license_mo	nitoring/license_mo	nitoring_details.html?f	e 🚥 🗹 🏠	
SYSTEMS	CodeM	eter We	bAdmin		C⁴
Dashboard Container ~	License Monitoring ~ Diagnos	sis ~ Configu	ıration ~ Info		*
All Licenses <no name=""> (2</no>	2-2310233) - Entry 101956:1 (-)			0	🔤 English (US) 🕑
CmContainer         Entry <no name=""> (2-2310233)         10195</no>	Available Total	e session	(	click to Canc	el the session
ID Client (User)	Client Application Process ID Information	Access Mode	First Access	Last Access	Expires Action
213 (.151 (	0	User Limit	2018-12-25 08:40:24	2018-12-26 12:10:56	
.151 ( 220 candice)	0	User Limit	2018-12-25 08:39:53	2018-12-26 12:10:35	
	Information last upda	ted on 2018-12	2-26 12:11:17		
Current Server: SERV	/ER (252) 🙆	i	WebAd	min Version: 6.40	)

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11.4.3 Getting Info on CodeMeters on a Particular Server - WebAdmin 5 Clicking on the **WebAdmin** button brings up the **CodeMeter WebAdmin** panel which can display information about **12d Model** licenses for **any** CodeMeter (Network or Standalone) that is visible on the computer network.

The panel comes up with the **Content >CmContainer** tab displaying information about one of the CodeMeters on **this** computer.

CodeMeter WebAdmin	CM				
Home Content Server Configuration (CmContainer) Licenses User Data   Backup/Resto	Diagnosis Info Help				
Cincontainer Licenses User Data Backup/Resto	ore				
CmContainer:	2-2310278				
Name:	<no name=""></no>				
CmContainer Type:	CmStick 2.04				
First Device:	No drive assigned (HID)				
Status:	Disabled Enabled until Unplugged				
	• Enabled				
System Time (PC):	2015-08-14 17:24:11				
System Time (CmContainer):	2015-08-14 17:24:10				
Certified Time (CmContainer):	2015-08-14 15:36:01 Update				
Free Memory:	93 % (367.432 Bytes) Defragment				

CodeMeters on other computer can be examined by clicking on the **Home** tab and then clicking on the displayed **Host Name:** to bring up the panel to select a **Server** to check for CodeMeters.

A pop up list is automatically created of all the computers that are visible on the network and have CodeMeters on them.

CodeMeter		dmin uration Diagnosis Info	См
Host Name:	Americiur	🧟 CodeMeter   WebAdmin - Internet 🗖 💷 💌	η
IP Address:	.6	http://localhost:22350/SelectServer.html	
Operating System:	Microsoft V	CodeMeter Web Administration	501), 64-bit
Server Startup:	Aug/13/20	Select a Server	
Runtime Version:	5.10b	localhost (127.0.0.1)	
Server Version:	Version 5.1	Use IP Address	
WebAdmin Version:	Version 5.:	Select	
		Intranet settings are turned off by default.	

Picking a Server/Computer from the list and then pressing **Select** will set the **Host Name:** to the selected computer and all the tabs on the **CodeMeter WebAdmin** panel will then show information about the CodeMeters on the selected computer.

#### Important Note:

It is possible to have different versions of **WebAdmin** installed on different Servers.

So depending on which Server you are looking at, you may now need to swap between the notes for **WebAdmin 6** and **WebAdmin 5**.

For instructions on Monitoring and Cancelling Licenses on this Server, see

<u>11.4.2 Monitoring and Cancelling Licenses - WebAdmin 6 on page 100</u> <u>11.4.4 Monitoring and Cancelling Licenses - WebAdmin 5 on page 107</u>.

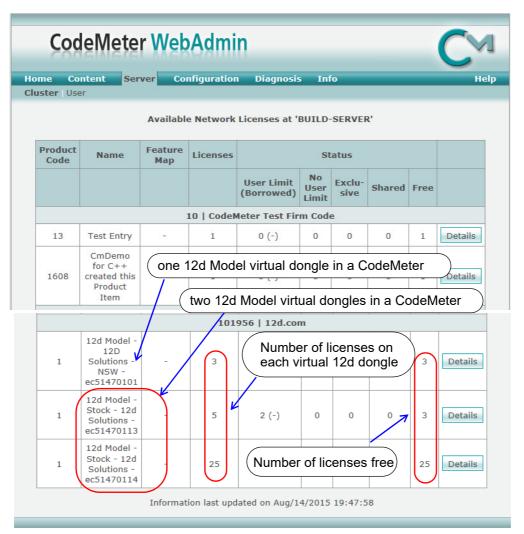
XXX++

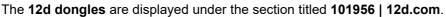
### 11.4.4 Monitoring and Cancelling Licenses - WebAdmin 5

The tab **Content >Licenses** will display information about any selected CodeMeter on the selected computer.

	_				
e Conte ontainer Li	censes User Data   Backup/Re		is Info	_	_
	CmContainer:	2-2310233	V	1	
	<u>100003</u>	Bundling A	rticles		
Product Code	Name	Unit Counter	Expiration Time	Activation Time	License Quantity
1	SecuriKey Lite	n/a	n/a	n/a	1
	<u>101</u>	<u>956</u>   12d.co	m		
Product Code	Name	Unit Counter	Expiration Time	Activation Time	License Quantity
1	12d Model - Stock - 12d Solutions - ec51470113	n/a	n/a	n/a	5
1	12d Model - Stock - 12d Solutions - ec51470114	n/a	n/a	n/a	25

To see how many **12d Model** licenses are being used by each virtual **12d dongle** in all the CodeMeters on a particular Server, when that server has been selected on the **Home** tab, click on the **Server >User** tab.



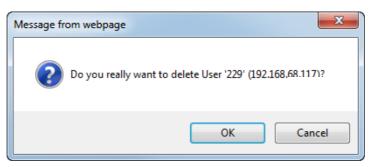


The table also displays how many **12d Model licenses** are on each **12d dongles**, and how many of those licenses are still **Free** to be used.

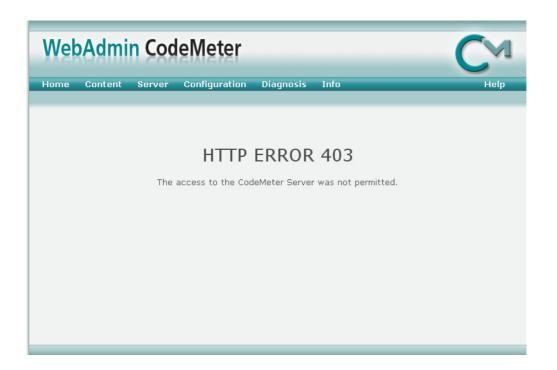
Details about each user on a particular **12d dongle** is displayed by clicking on the **Details** button at the end of the row for that virtual **12d dongle**.

								-
me		rver Co	nfiguration	Diagnos	is Info	_	_	н
ster	User							
		Licens	se Details Cm	Contain	er 2-2310	233		
		En	try	101	956 : 1 (-)			
		Fre	ee		3			
		То	tal		5			
ID	Client (User)	Client Process ID	Application Information	Access Mode	First Access	Last Access	Expires	Action
	.117	0		User Limit	2015-08- 14 19:41:48	2015-08- 14 19:49:22		Cancel
229	(T3600-1 \ alg)				2015-08-	2015-08-		

A particular user session of *12d Model* can be stopped by clicking on the **Cancel** button. A **Confirmation** panel will then be brought up.



If you click on **OK** and have permission to be able to stop people, the session will be terminated. If you do not have permission, you will get the message



# 11.5 Updating Licenses in Network CodeMeters

A **Network CodeMeter** can contain one or more **virtual 12d dongles** and each of these virtual dongles can have a different number of **12d Model** licenses.

Adding extra **12d dongles**, or modifying the number of licenses on each of the **12d dongles** can be done electronically without having to remove the Network CodeMeter from the computer.

Updating virtual **12d dongles** is usually one simple step but it may involve two steps.

### Step 1.Generating the CodeMeter Context File (.WibuCmRaC) - only if asked for

The *context* (.WibuCmRaC) file holds information about the current settings in the Network CodeMeter. **12d Solutions** usually knows these setting for your Network CodeMeter and this step is normally not required.

However sometimes you may be asked to generate the .WibuCmRaC file and email it to your local **12d Model** Distributor.

If you need to generate the .**WibuCmRaC** file, go to <u>11.5.1 Generating the Context File</u> (.WibuCmRac) on page <u>112</u>.

### Step 2.Updating the Network CodeMeter with the .WibuCmRaU file

You will be emailed one or more special files (ending in .**WibuCmRaU**) which are used to update the information about the virtual **12d dongles** in the Network CodeMeter.

If you have a **WibuCmRaU** file, go to <u>11.5.1.1 Updating Using the .WibuCmRaU File on</u> page <u>115</u>.

# 11.5.1 Generating the Context File (.WibuCmRac)

The follow steps will generate a new context file for a Network CodeMeter using the *CodeMeter Control Center* panel.

The *CodeMeter Control Center* panel is accessed by clicking on — the **CodeMeter** icon that was installed on your task bar.

(	CodeMeter Control Center			X	
	File Process View Help				
	License Events Borrow				
	© CmStick 2-2310262	Name:			
	2-2310242	Serial:	2-2310262	<b></b>	
		Version:	CmStick 2.04		
		Capacity:	93 % free (367400 Bytes)		
•	Click on <i>Licei</i>	ISE Status:	Oisabled		
1	Update		🔘 😔 Enabled until unplugged		
1			Enabled		
		License Update	Eject Change Password		
	CodeMeter is started.		We	bAdmin	

Click on License Update to bring up the CmFAS Assistant panel.



Select Next.

-----



Tick on Create receipt and then select Next.

CmFAS Assistant	? ×
	Please choose the producer
Tick on <b>12d</b>	l.com
	Select the software producer to which you want to send the receipt file. The producer will only see the data which you select here. So you can ensure that the producer doesn't see which other licenses from other suppliers you have.
	< Back Next > Help

Tick on 12d.com and then select Next.

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Select the file to use to update the CodeMeter and then select Commit.

Email the .WibuCmRaC file to your 12d Model Reseller.

Your **12d Model Reseller** will then be able to send you a **.WibuCmRaU** file to update your Network CodeMeter.

For information on how to use a **.WibuCmRaU** f file to update the CodeMeter, see <u>11.5.1.1</u> <u>Updating Using the .WibuCmRaU File on page 115</u>.

## 11.5.1.1 Updating Using the .WibuCmRaU File

The number of virtual **12d dongles** and the number of **12d Model** licenses on them can be changed electronically without having to remove the CodeMeter from the computer.

To update the CodeMeter, you will be sent a file starting with the CodeMeter number, then the date and finally ending in **.WibuCmRau**.

The steps below will show how to use the .WibuCmRau file to update the Network CodeMeter

#### You need to have System Administrator rights to update the Network CodeMeter.

Before updating a Network CodeMeter dongle, run the **CodeMeter** *WebAdmin* software to check that no one is using the Network CodeMeter (<u>11.4 Monitoring and Cancelling Licenses on page 97</u>). The **CodeMeter** *WebAdmin* displays network dongle activity and it can also remove users from the network dongle.

Once all the users are off the Network CodeMeter, double click on the file **codemeter\_number\_date.WibuCmRau** and the following panel will appear:

WIBU-SYST	EMS Shell Extension		X
?	Do you want to transfer the file contents C:\Users\Ijg\AppData\Local\Microsoft\V Files\Content.Outlook\LPCZ6RTF\2-231( U into the suitable CmAct license?	Vindows\Temporary Ir	
		Yes	No

Select Yes and a panel to say how many CodeMeters have been updated should appear.

	CmRmtAct64
	0 CmSticks successfully updated.
Click on <b>OK</b> –	ок

The CodeMeter should now be updated. The **CodeMeter WebAdmin** can be used to check that the new number of licenses, or new number of 12d dongles, are now available.

**WARNING:** If there is *no* association for the **.WibuCmRau** file, double clicking on the **.WibuCmRau** file won't work. In that case go to <u>11.5.1.2 Manually Updating the Network</u> <u>CodeMeter on page 116</u>.

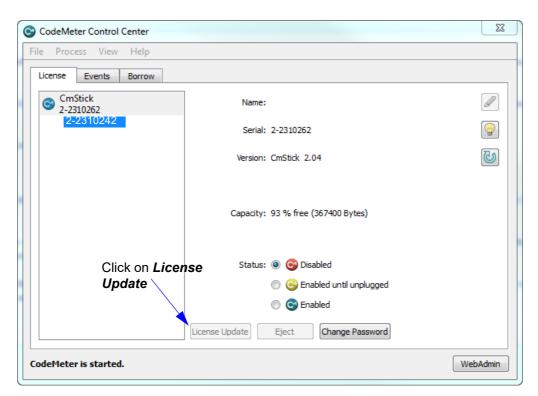
#### Nodes.4d:

If you've added a new *virtual* **12d** *dongle* to your CodeMeter then a new **nodes.4d** file with that 12d dongle number in it will be needed. If all you did was change the number of licenses for an **existing 12d** *dongle* in the Network CodeMeter then a new **nodes.4d** file is not required.

### 11.5.1.2 Manually Updating the Network CodeMeter

If there is **no association** with the **.WibuCmRau** file then double clicking on the **.WibuCmRau** file won't automatically run the CodeMeter update program. So instead, the update will have to be done manually using the *CodeMeter Control Center* panel.

The CodeMeter Control Center panel is accessed by clicking on	0
the <b>CodeMeter</b> control Center panel is accessed by clicking on	C



Click on License Update to bring up the CmFAS Assistant panel.



Select Next.



Tick on Import license update and then Next.

CmFAS Assistant	? ×
Please select the file name	
C:/12d Jobs/2-2310247-2015-08-13.WibuCmRaU	
Sect a file under which the license update file is stor on 'commit' to import the new licenses.	ed on your computer. Then dick
Select the file to use to update the CodeMeter	
Click on <i>Commit</i>	
< Back	Commit Help

Select the file to use to update the CodeMeter and then select on Commit.

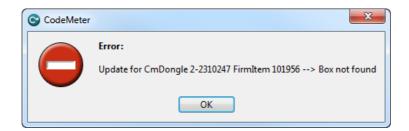
#### Nodes.4d:

If you've added a new *virtual* **12d** *dongle* to your CodeMeter then a new **nodes.4d** file with that 12d dongle number in it will be needed. If all you did was change the number of licenses for an **existing 12d** *dongle* in the Network CodeMeter then a new **nodes.4d** file is not required.

**Note** - if the CodeMeter that the file applies to is not on the computer then an **Error** message will be brought up. See <u>11.5.2 Errors Updating the Network CodeMeter on page 118</u>.

## 11.5.2 Errors Updating the Network CodeMeter

If there was a problem, instead of the dialogue stating that the CodeMeter has been updated, a CodeMeter error panel will appear. For example:



If you can't work out what your error was, email the error message to your 12d Model Reseller.

Doing a *Print Screen* and saving the *png* or *bmp* is the best way to record details of the error and send the image to your **12d Model Reseller**.

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# 11.6 Replacing an Existing Network CodeMeter

Before removing a Network CodeMeter, run the *CodeMeter WebAdmin* software to check that no one is using the Network CodeMeter dongle (<u>11.4 Monitoring and Cancelling Licenses on page 97</u>).

If there are no user on the Network CodeMeter, the existing Network CodeMeter can be removed from the computer and the new Network CodeMeter attached.

The new Network CodeMeter should now be ready to use.

**NOTE** - a new nodes file will be required for the new virtual **12d dongles** that are in the new Network CodeMeter.

# 11.7 End of the Notes on Network CodeMeters

This ends the general notes on the Network CodeMeter.

However information on Certifying Network CodeMeters is covered in <u>9 Errors Installing and</u> <u>Authorising on page 47</u>.

If you need to install **12d Model** on a computer, go to the section <u>2 Installing 12d Model 15</u> <u>Release Version on page 6</u>.

The links for downloading documentation on **12d Model** are given in <u>6 Documentation on</u> page 40.

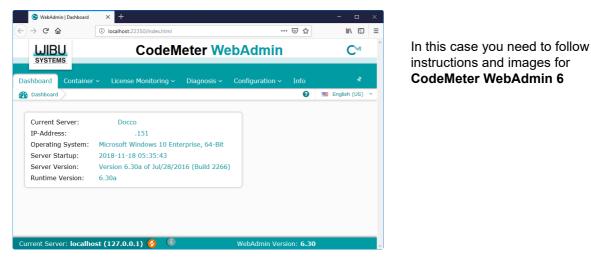
The links for downloading information, power points and videos on what is new in **12d Model 15** are given in <u>7 What's New in 12d Model 15 on page 45</u>.

# 11.8 Which Version of WebAdmin?

Clicking on the **WebAdmin** button brings up the **CodeMeter WebAdmin** panel which can display information about **12d Model** licenses for **any** CodeMeter (Network or Standalone) that is visible on Servers in the computer network.

Depending on when the **CodeMeter** was installed on a particular Server, you can get different versions of the **WebAdmin** pages.

If on a Server the WebAdmin Dashboard page looks like:



Otherwise if the WebAdmin Home page on a Server looks like:

Co	odeMeter WebAdmi	n	(
lome	Content Server Configuration	Diagnosis Info	
CmConta	iner   Licenses   User Data   Backup/Res	itore	
	CmContainer:	3-3375053	$\checkmark$
	Name:	<no name=""></no>	
	CmContainer Type:	CmStick 2.05	
	First Device:	No drive assigned (HID)	
	Status:	Disabled	
		Enabled until Unplugge	ed
		• Enabled	
	System Time (PC):	2018-12-23 13:59:36	
	System Time (CmContainer):	2018-12-23 13:59:29	
	Certified Time (CmContainer	: 2016-01-29 12:27:24	Update
	Free Memory:	94 % (315.640 Bytes)	Defragment

In this case you need to follow instructions and images for **CodeMeter WebAdmin 5** 

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#### **Important Note:**

It is possible to have different versions of **WebAdmin** installed on different Servers.

So depending on which Server you are looking at, you may need to swap between the notes for **WebAdmin 6** and **WebAdmin 5**.

For instructions on finding information about CodeMeters on a particular Network Server, see

<u>11.4.1 Getting Info on CodeMeters on a Particular Server - WebAdmin 6 on page 98</u> <u>11.4.3 Getting Info on CodeMeters on a Particular Server - WebAdmin 5 on page 105</u>.

Which Version of WebAdmin?

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