



Application protection using CodeMeter software

User Guide

March 01, 2024

The information in this document is subject to change without prior notice.

No part of this document may be reproduced or transmitted in any form and in any way for any purpose without written permission from LLC Bazis-Center.

© LLC Bazis-Center, 2024. All rights reserved.

BAZIS and Bazis logo
are the registered trademarks of LLC Bazis-Center.

Other trademarks mentioned in this document
belong to their respective owners.

Contents

Chapter1.

Protection system common information.....	7
1.1. Software implementation of the protection system.....	7
1.1.1. Common information.....	7
1.1.2. Floating licenses	7

Chapter2.

CodeMeter protection software installation.....	8
--	----------

Chapter3.

Protection software access setup	11
3.1. Local use of protected software setup.....	11
3.2. Protected software network use setup.....	11
3.2.1. Back-end	11
3.2.2. Front-end	11
3.3. Common settings	12
3.4. Protection key setup	12

Chapter4.

CodeMeter Control Center use.....	12
4.1. CodeMeter Control Center start	12
4.2. File menu commands	14
4.2.1. License import	14
4.2.2. CodeMeter Web Admin start	14
4.2.3. Report file creation.....	14
4.2.4. Network parameters setup.....	14
4.2.5. CodeMeter Control Center work completion	14
4.3. Process menu commands	14
4.3.1. Defragmentation of license memory area	14
4.3.2. Time certificates refreshing	14

4.3.3.	Configuration restore	14
4.3.4.	CodeMeter service start	15
4.3.5.	CodeMeter service stop	15
4.3.6.	CodeMeter service restart	15
4.4.	View menu commands	15
4.4.1.	CodeMeter Control Center window collapse.....	15
4.4.2.	Information refresh.....	15
4.4.3.	Report font size change	15
4.4.4.	Report contents copying to the clipboard.....	15
4.4.5.	Report contents flush	15
4.4.6.	Displaying key information.....	15
4.4.7.	Displaying open IDs	15
4.4.8.	Available licenses visualization.....	16
4.5.	Help menu commands.....	16
4.5.1.	Help calling.....	16
4.5.2.	Key registration	16
4.5.3.	Program data viewing.....	16
4.6.	Program window tabs	16
4.6.1.	License tab	16
	Key rename	16
	Key highlighting	16
	Key firmware updating	16
	Key state control.....	17
	License refreshing	17
	Key password changing	18
4.6.2.	Events tab.....	18

Chapter5.

	CodeMeter setup using Web-interface.....	18
5.1.	CodeMeter WebAdmin start.....	18
5.2.	CodeMeter WebAdmin interface.....	19
5.3.	CodeMeter WebAdmin tabs.....	20
5.4.	Control panel	20
5.5.	Container	20

5.5.1.	Licenses	20
5.5.2.	Information about CmContainer	21
5.5.3.	User data	21
5.5.4.	Backup and Restore	22
5.6.	License monitoring.	23
5.6.1.	All licenses	23
5.6.2.	Sessions	23
5.7.	Diagnostics.	24
5.7.1.	Events	24
5.8.	Configuration	25
5.8.1.	Base configuration — Server search list	25
5.8.2.	Base configuration — Proxy	25
5.8.3.	Base configuration — WebAdmin	26
	Remote Read Access	26
	Protocol Selection	26
	Required Autentification.	26
5.8.4.	Base configuration — Backup	27
5.8.5.	Server configuration — Server access	28
5.8.6.	Server configuration — License access rights.	29
5.8.7.	Advanced Configuration — Time server	29
5.8.8.	Advanced Configuration — Extra.	30
5.9.	Information.	31

Chapter 1. Protection system common information

CodeMeter security system of Wibu-Systems AG is based on the use of a cryptographic chip with hardware implementation of 128-bit AES, 224-bit ECC и 1024-bit RSA algorithms.

The standard delivery of the BAZIS system includes a device for protection against unauthorized use — a hardware protection key (fig. 1.1), which is installed in the USB port connector of the computer.



Fig. 1.1. Hardware protection key

1.1. Software implementation of the protection system

1.1.1. Common information

The protection system allows to use the following operating modes of the software:

- ▼ **Network mode.** The computers are connected to a local network. The key driver is installed on each computer with the BAZIS system (**client workplace**) installed, ensuring the launch of protected software and its interaction with the network protection key during operation. The network key for hardware protection can be installed on any computer on the network, in the settings of the key driver on this computer, you must start the network server (see section 3.2.1 on p. 11). This computer is a **license server**. The key stores information about the number of available licenses. An appropriate number of client workplaces can use the hardware protection network key.
- ▼ **Local mode.** The BAZIS system is installed on a local computer (workplace). A hardware protection key and, accordingly, a key driver must be installed at each workplace.



The separation of operating modes is conditional. Any hardware protection key can be used both in network and local mode.

1.1.2. Floating licenses

Licenses for the BAZIS system modules use during network operation are **floating**. Each time the BAZIS system module is launched at the client workplace, it receives the appropriate license stored in the key. The number of available licenses is decreasing. After the end of the work session, the license is automatically released and can be used by another workplace. Thus, licenses are not tightly linked to specific

workplaces. The use of floating licenses ensures maximum convenience of the BAZIS system in network mode.

Chapter 2. CodeMeter protection software installation

CodeMeter protection system software installation will be fulfilled automatically after DBMS FireBird installation completion. Installation dialogue will appear on the screen (fig. 2.1).



Fig. 2.1.

For software installation push **Next** button. In **End-User License agreement** dialogue enable the option, accept license agreement and push **Next** button (fig. 2.2).

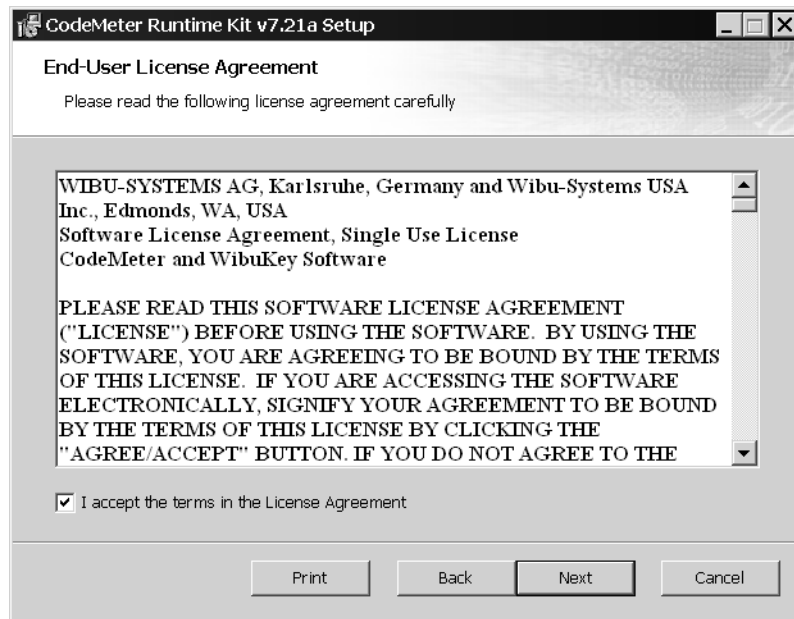


Fig. 2.2.

Installation scope dialogue will appear on the screen. Specify user name and organization, choose software accounts and push **Next** button (fig. 2.3).

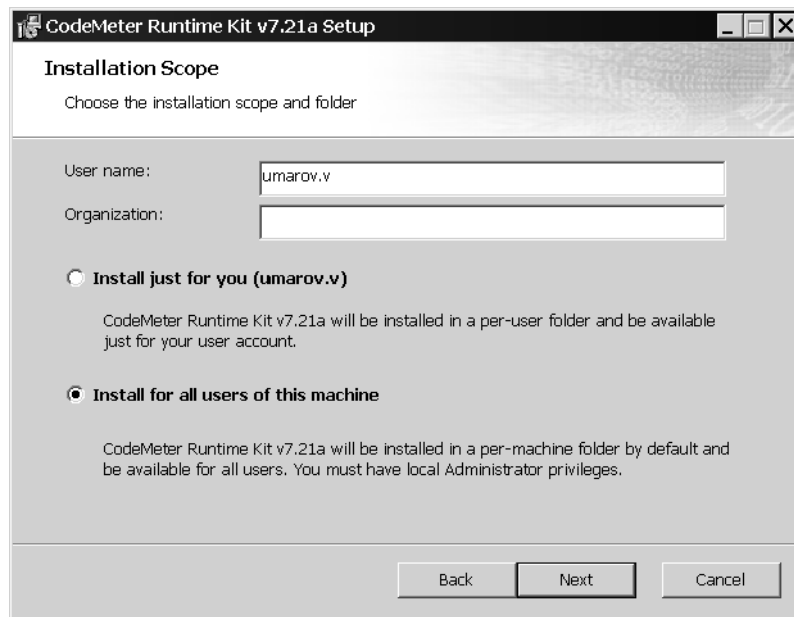


Fig. 2.3.

In **Custom setup** dialogue select software components for installation. It is recommended to complete full installation. To continue installation, push **Next** button (fig. 2.4).

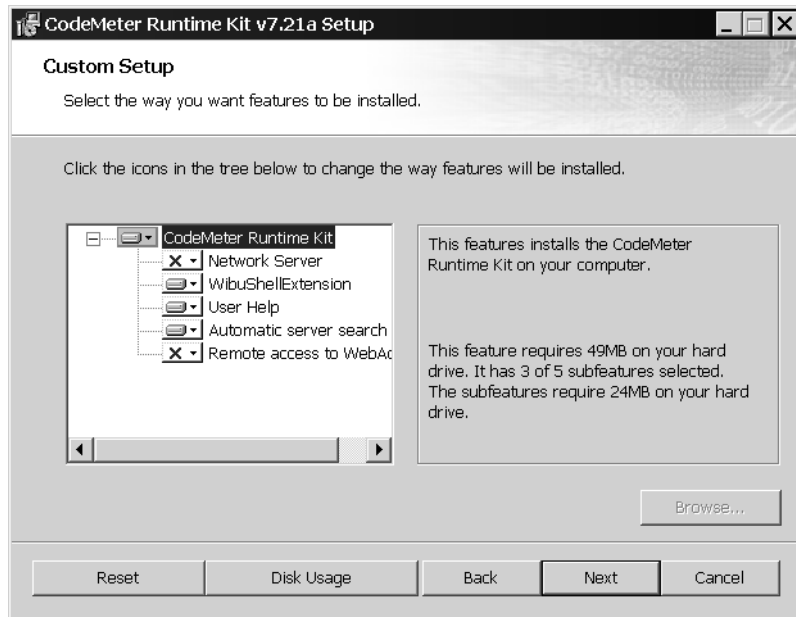


Fig. 2.4.

The following dialogue will appear on the screen (fig. 2.5). For software installation push **Install** button.

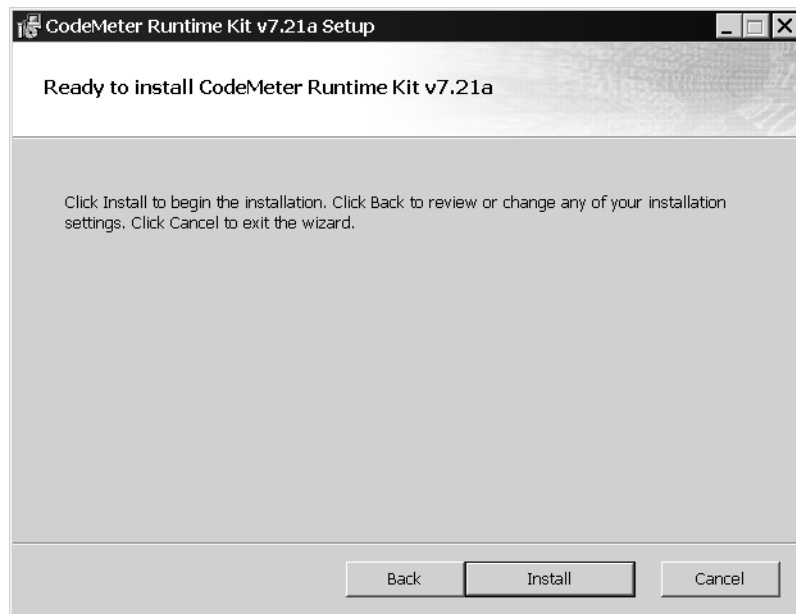


Fig. 2.5.

After installation completion, a final dialogue will appear on the screen (fig. 2.6). To exit installation push **Finish** button.



Fig. 2.6.

Chapter 3. Protection software access setup

3.1. Local use of protected software setup

At BAZIS system applications on local computer use with installed protection key, no extra actions for protected software use are required.

3.2. Protected software network use setup

3.2.1. Back-end

1. Click with mouse right button on CodeMeter icon in Windows notification area.
2. Call **WebAdmin** command.
Internet browser will be started automatically, CodeMeter WebAdmin page will be opened.
3. Open **Configuration —Server —Server access** tab and check **Run in Network server** group (see section 5.8 on p. 25).

3.2.2. Front-end

1. Click with mouse right button on CodeMeter icon in Windows notification area.
2. Call **WebAdmin** command.

Internet browser will be started automatically, CodeMeter WebAdmin page will be opened.

3. Open **Configuration —Server —Server access** tab and select **Disable** variant in **Network server** group (see 5.8 on p. 25).

By default, search for free licenses is fulfilled from front end work place for all available computers, where CodeMeter program is run as license server.

4. To select the computers, which can be used as a server, specify their IP-address or domain names in **Server search list**, e.g. *192.168.1.100* or *server* on **Configuration —Base —Server search list** tab.



Protection system setup is described in detail in Chapter 5 on p. 18.

3.3. Common settings

Network parameters settings take effect only after program restart. For CodeMeter restart, push **Apply** button.



If Windows firewall or similar software is used on a computer, make the port used by CodeMeter system available (by default, it is port 22350).

3.4. Protection key setup

Protection key should be put into free USB port. No extra actions are required; BAZIS system checks automatically, whether the key is installed on computer.



Several protection keys can be applied to one computer.






Chapter 4. CodeMeter Control Center use

4.1. CodeMeter Control Center start

CodeMeter Control Center program provides access to the license server settings. When installing CodeMeter, the shortcut to launch CodeMeter Control Center is placed by default in **Autorun** section of the Windows Main menu. Thus, it starts automatically in a minimized window with the start of each session of the operating system. At the same time, the system icon is displayed in the notification area. The icon colour shows the status of the hardware protection key (tab. 4.1), see section 4.6.1 on p. 16.



Tab. 4.1.

	Icon colour	Key state
	Grey	The local key is not connected or the CodeMeter Runtime Server service is running. In this case, the workplace can use the network key on the license server.
	Green	The local key is activated and connected.
	Double blue	Several keys are connected and activated.
	Yellow	The key is connected and activated until it is disconnected.
	Red	The deactivated key is connected.

To open CodeMeter Control Center window, you can use the following methods.

- ▼ Call Windows menu command **Start — Programs — Autorun — CodeMeter Control Center**.
 - ▼ Click on program icon with mouse left button.
- CodeMeter Control Center** window will appear on the screen (fig. 4.1).

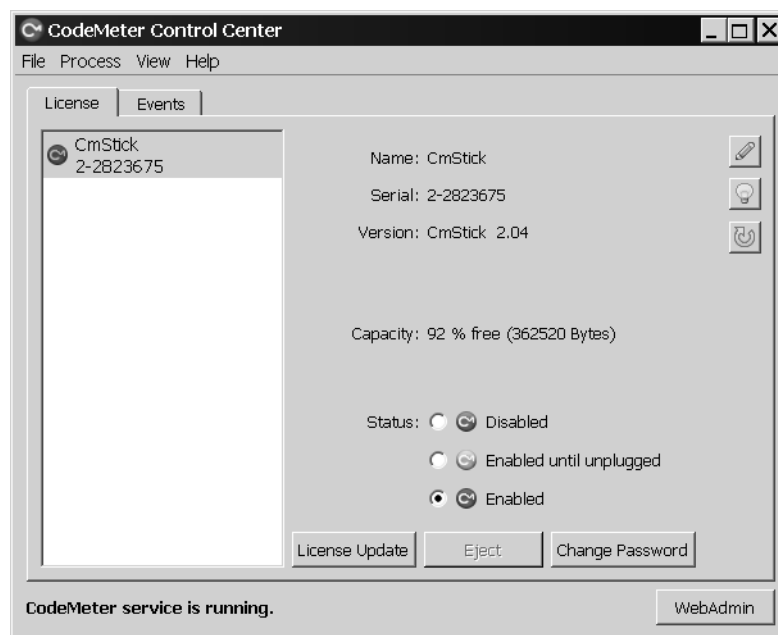


Fig. 4.1.

The Main menu of the program is located in the upper part of the window. The main set of control elements is located on the tabs. The program status bar and the CodeMeter WebAdmin program launch button are located at the bottom of the window.

4.2. File menu commands

4.2.1. License import

License import command allows to import a license from a file. After command call, a standard Windows dialogue will appear on the screen.

4.2.2. CodeMeter Web Admin start

WebAdmin command allows to start CodeMeter WebAdmin (see section 5.1 on p. 18).

4.2.3. Report file creation

Logging command allows to start recording a report file on all processes related to the license server operation. The command functions as a switch. If reporting is enabled, an option is enabled next to command name. In this case, the report contents will be shown on **Events** tab. If CodeMeter WebAdmin is running, **Diagnostics** tab will also show the report contents (see section 5.7 on p. 24).

Report file is saved in *%\Program Files\CodeMeter\Logs* folder.

4.2.4. Network parameters setup

Preferences command allows to start Code Meter WebAdmin. **Configuration** tab will be opened (see section 5.8 on p. 25).

4.2.5. CodeMeter Control Center work completion

Quit command allows to finish work of CodeMeter Control Center. At the same time CodeMeter Control Runtime Server will continue to work.

4.3. Process menu commands

4.3.1. Defragmentation of license memory area

Defragment License Memories command allows to defragment license memory area of the key selected in **License** tab.

4.3.2. Time certificates refreshing

Update Time Certificates command allows to refresh the program current time using certified servers.

4.3.3. Configuration restore

Repair Hardware Configuration command does not matter for keys of CmDon-
gle type.

4.3.4. CodeMeter service start

Start CodeMeter Service command allows to start this service in a case, if it has been stopped.

4.3.5. CodeMeter service stop

Stop CodeMeter Service command allows to stop the service in a case, if it has been started.

4.3.6. CodeMeter service restart

Restart CodeMeter Service command allows to restart the service.

4.4. View menu commands

4.4.1. CodeMeter Control Center window collapse

Hide window command allows to minimize the program window to an icon in the notification area.

4.4.2. Information refresh

Refresh command allows to refresh all connected keys state visualization.

4.4.3. Report font size change

Zoom In and **Zoom Out** commands allow to change the font size when displaying report in **Events** tab.

4.4.4. Report contents copying to the clipboard

Copy Event Content command allows to copy the contents of current report on processes related to CodeMeter Runtime Server operation to the clipboard.

4.4.5. Report contents flush

Clear Event Window command allows to delete the current report contents in **Events** tab.

4.4.6. Displaying key information

Show all connected CmContainer command allows to display information about all keys connected to the computer on **Events** tab.

4.4.7. Displaying open IDs

List all open handles command allows to display a list of all open IDs (handles) on **Events** tab. The information is necessary for software developers.

4.4.8. Available licenses visualization

Show All Available Licenses Entries command allows to display a list of all licenses recorded on the key on **Events** tab.

4.5. Help menu commands

4.5.1. Help calling

Help command allows to open help system in the default browser.

4.5.2. Key registration

Register CmDongle command allows to register a key on a secure site <https://my.codemeter.com>.

4.5.3. Program data viewing

About command allows to view the data about the current version of CodeMeter.

4.6. Program window tabs

4.6.1. License tab

The list on the tab (fig. 4.1 on p. 13) contains the serial numbers of the keys connected to the computer. One of the designations is selected. The buttons located on the tab allow to control the key.

Key rename



Change name of selected CmDongle button allows to rename the selected key. After pushing the button, a dialogue will appear on the screen, it allows to name the key (fig. 4.2).

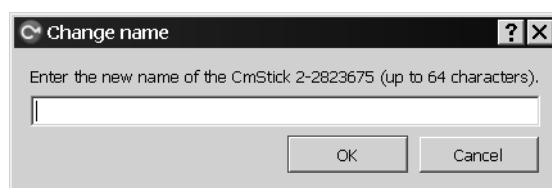


Fig. 4.2.

Key highlighting



Let flash LED of selected CmStick button allows to turn on the LED indicator of the key for a short time, the designation of which is highlighted in the list.

Key firmware updating



Update Firmware of selected CmDongle button allows to update the key firmware selected in the list. The firmware updating requires an Internet connection. Af-

ter pushing the button, CodeMeter Control Center automatically connects to the Wi-bu-Systems automatic firmware update server. To perform the update, specify the key password.



The firmware update may take some time. Before the process is completed, you cannot disconnect the firmware key from the USB port. Failure to comply with this requirement will result in damage to the key.

If a firmware update is not required, an informational message will appear on the screen (fig. 4.3).

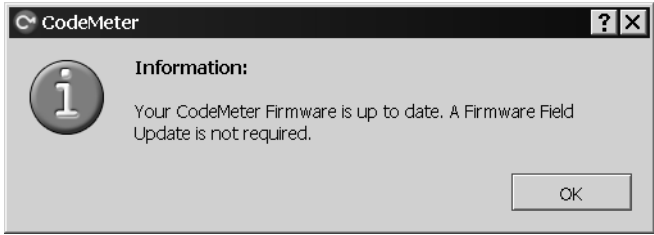


Fig. 4.3.

Key state control

State group variants allow to control the state of selected key (tab. 4.2).

Tab. 4.2.

	Name	Description
	Disabled	The connected key is programmatically disabled. Licenses from this key cannot be used.
	Enabled until unplugged	The key is connected during the time it is physically connected to the computer. When the key is disconnected, the use of programs for which licenses are recorded on the key will be unavailable.
	Enabled	The key is available. The use of programs licensed on the key will be available even if the key is physically disconnected.

To change the key state, you must enter the key password in the dialogue that automatically appears on the screen.

License refreshing

License Update button allows to get new or refresh the existing licenses for selected key.

Key password changing

Change password button allows to change the password of chosen key. After pushing the button, **CodeMeter-change password** dialogue will appear on the screen (fig. 4.4).



Fig. 4.4.

Enter the current password in **Old password** field. Enter a new password in **New password** field and enter it again in **Change password type** field. If you have lost your old password, select **Yes** variant in **Master Password Entry** group. In this case, the master password received from the site must be used as the current password *my.codemeter.com* when registering a key (see section 4.5.2 on p. 16).

4.6.2. Events tab

The tab can display information about connected keys, licenses that are recorded on these keys, a report on processes related to the operation of CodeMeter Runtime Server, etc. The tab contents control is described in sections 4.2.3 on p. 14 and 4.4 on p. 15.

Chapter 5.CodeMeter setup using Web-interface

5.1. CodeMeter WebAdmin start

The main settings of the CodeMeter service are performed using CodeMeter WebAdmin program. This program has a WEB interface and opens in the window of the

default browser, e.g. MS Internet Explorer, Opera, etc. To launch CodeMeter WebAdmin (CMWA), you can use the following methods.

- ▼ Push **WebAdmin** button in CodeMeter Control Center window.
- ▼ In the browser window, enter the domain name or IP address of the computer with the installed CodeMeter Runtime Server and port number 22350, e.g. *http://10.3.1.37:22350* or *http://LM_server:22350*, and go to this address.



Port 22350 must be open, otherwise it will be impossible to use CMWA.



To access the CodeMeter Runtime Server on a remote computer, it is necessary that the CMWA settings of this computer allow access from users from other computers on the network.

To access the license manager on the local computer, address bar contents must be as follows: *http://localhost:22350* or *http://127.0.0.1:22350*.

5.2. CodeMeter WebAdmin interface

After launching CMWA, a default browser window will appear on the screen, in which the program page is open. In fig. 5.1. the Internet Explorer window is shown with the CodeMeter WebAdmin program running.

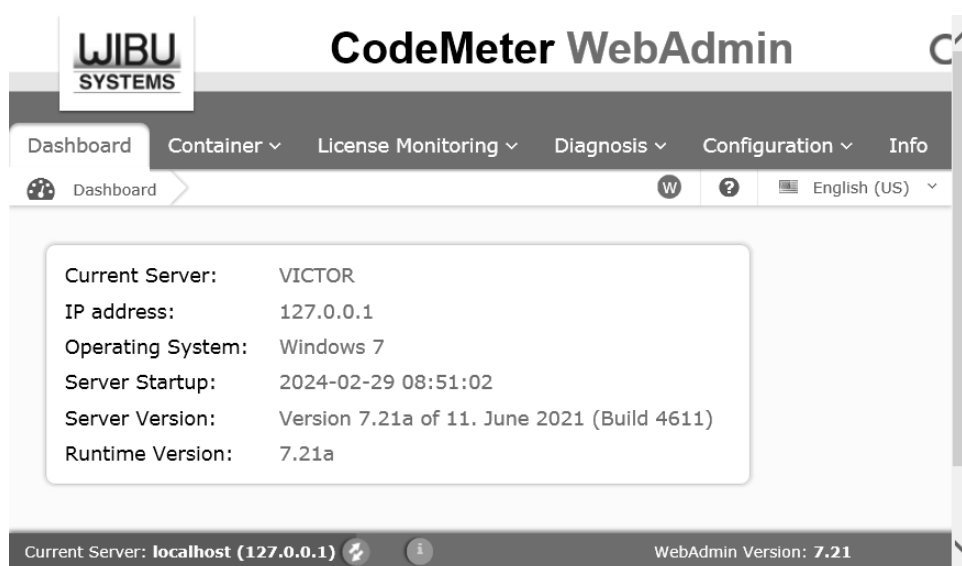


Fig. 5.1.

The CMWA command menu is displayed at the top of the page. These commands refer to the License Manager of the computer which network name and IP address are shown on the CMWA **Control panel** tab (hereinafter referred to as the *current computer*). After command call, a set of additional commands appears in the browser window. **Help** command opens a browser window containing the CMWA help



section associated with this tab. **Language** combobox allows to select the language of the CodeMeter WebAdmin interface.

5.3. CodeMeter WebAdmin tabs

5.4. Control panel



The tab contains general information about the computer and the CodeMeter program. The button with the name of the current hostname allows to select another computer with the CodeMeter client software installed to display the properties. After pushing the button, a dialogue will appear on the screen shown in fig. 5.2.

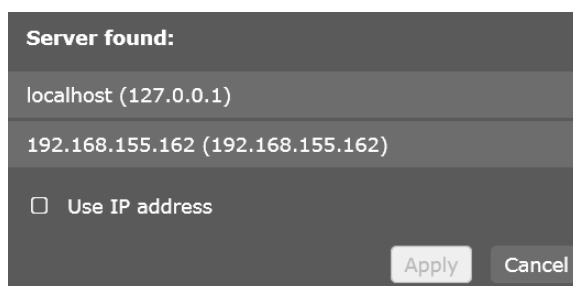


Fig. 5.2.

To view information about another computer, select its name from a combobox and push **Apply** button.



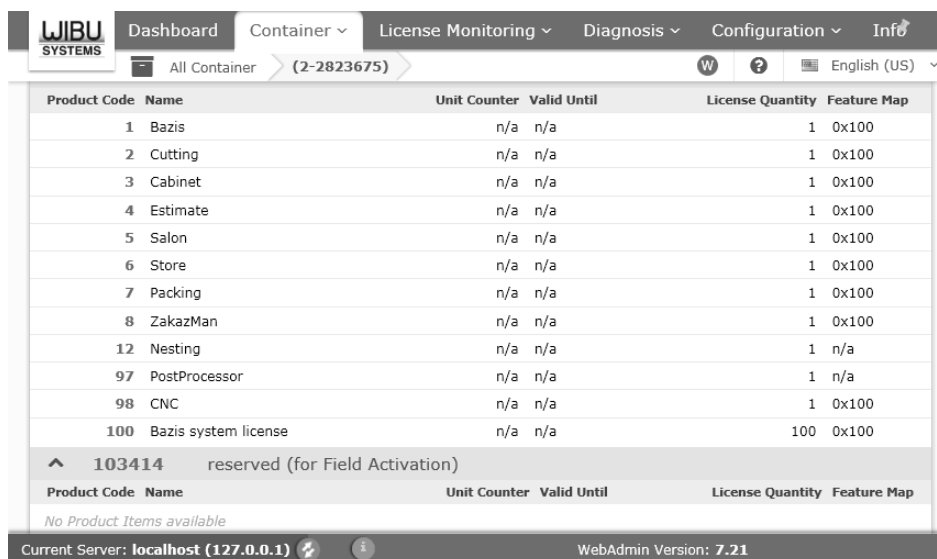
If the combobox items are IP addresses, enable **Use IP address** option.

5.5. Container

The tab control elements allow to view information about the key which serial number is selected in the **All CmContainer:** combobox.

5.5.1. Licenses

The tab control elements (fig. 5.3) allow to view licenses data, recorded on the current key.



Product Code	Name	Unit Counter	Valid Until	License Quantity	Feature Map
1	Bazis	n/a	n/a	1	0x100
2	Cutting	n/a	n/a	1	0x100
3	Cabinet	n/a	n/a	1	0x100
4	Estimate	n/a	n/a	1	0x100
5	Salon	n/a	n/a	1	0x100
6	Store	n/a	n/a	1	0x100
7	Packing	n/a	n/a	1	0x100
8	ZakazMan	n/a	n/a	1	0x100
12	Nesting	n/a	n/a	1	n/a
97	PostProcessor	n/a	n/a	1	n/a
98	CNC	n/a	n/a	1	0x100
100	Bazis system license	n/a	n/a	100	0x100
^ 103414 reserved (for Field Activation)					
Product Code	Name	Unit Counter	Valid Until	License Quantity	Feature Map
No Product Items available					

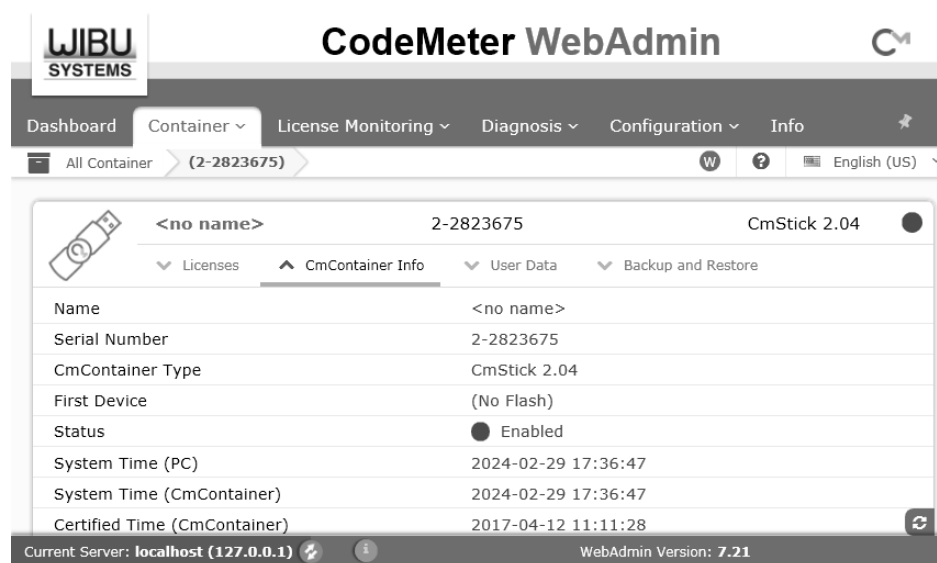
Current Server: localhost (127.0.0.1) WebAdmin Version: 7.21

Fig. 5.3.

The tab displays the developer code of protected software and its name. For each component of the protected software, its code, name and parameters of the paid licenses are shown.

5.5.2. Information about CmContainer

The tab control elements allow to view information about the current key (fig. 5.4).



<no name>		2-2823675	CmStick 2.04
<div> <div><no name></div> <div>2-2823675</div> <div>CmStick 2.04</div> </div>			
<div> <div>Licenses</div> <div>CmContainer Info</div> <div>User Data</div> <div>Backup and Restore</div> </div>			
Name	<no name>		
Serial Number	2-2823675		
CmContainer Type	CmStick 2.04		
First Device	(No Flash)		
Status	● Enabled		
System Time (PC)	2024-02-29 17:36:47		
System Time (CmContainer)	2024-02-29 17:36:47		
Certified Time (CmContainer)	2017-04-12 11:11:28		

Current Server: localhost (127.0.0.1) WebAdmin Version: 7.21

Fig. 5.4.



Refresh button allows to synchronize the system time of the local computer with the time of certified server. **Defragment** button allows to defragment protection key memory.

5.5.3. User data

The tab control elements allow to view custom data for the current key (fig. 5.5).

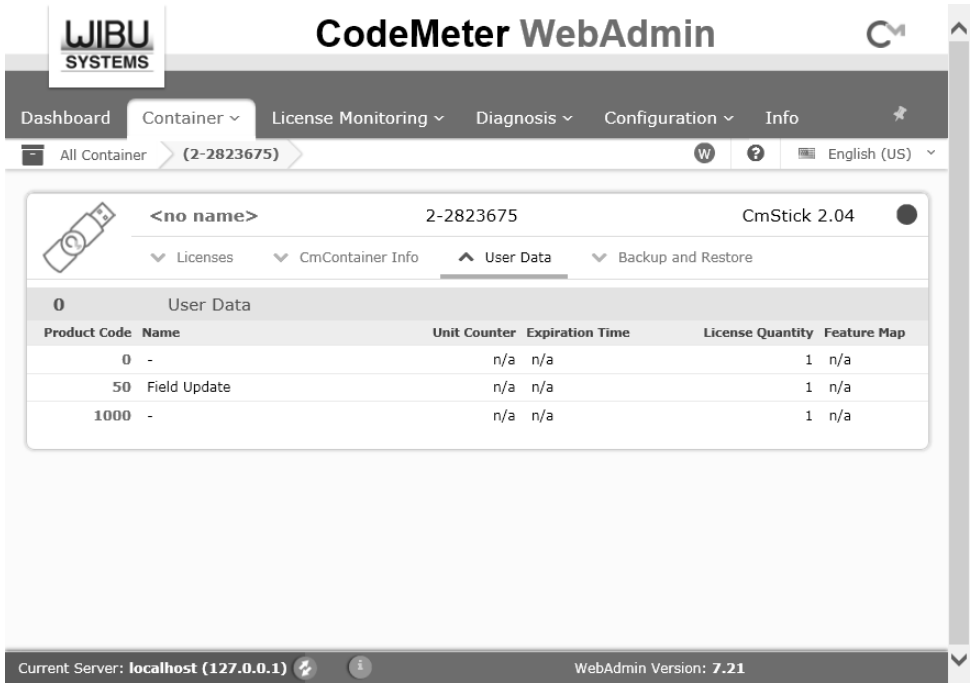


Fig. 5.5.

5.5.4. Backup and Restore

The tab control elements allow to back up information saved on the current key to a file on disk and restore this information from a backup. The file name is generated automatically and contains the serial number of the key, as well as the time and date of file creation. The file is assigned the *wbb* extension. **Backup now** button (fig. 5.6) allows to perform the backup immediately, regardless of the scheduled backup.

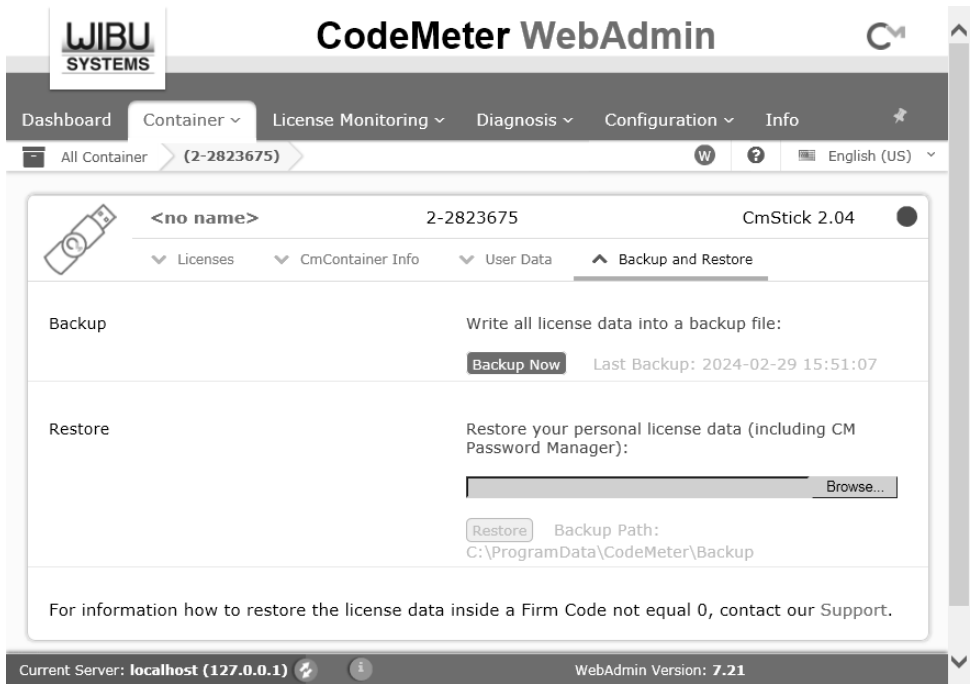


Fig. 5.6.

The folder where the backup file will be saved can be set in **Configuration — Base — Backup** tab. To restore the information on the key from the backup file, select the file in which the backup file is saved by pushing **Browse...** button and push **Restored** button. See section Base configuration — Backup on p. 27.

5.6. License monitoring

5.6.1. All licenses

This tab shows information about all available network licenses (fig. 5.7).

Available Licenses on 'VICTOR'					
^ 10					
Product Code	Name	Feature Map	License Quantity	Used	Available
No Product Items available					
^ 100003 Bundling Articles					
Product Code	Name	Feature Map	License Quantity	Used	Available
1	SecuriKey Lite	0x1	1	0	1
^ 101368 Bazis-Center Ltd.					
Product Code	Name	Feature Map	License Quantity	Used	Available
1	Bazis	0x100	1	0	1
2	Cutting	0x100	1	0	1
3	Cabinet	0x100	1	0	1
4	Estimate	0x100	1	0	1

Information last updated on 2024-03-01 09:55:16

Current Server: localhost (127.0.0.1) WebAdmin Version: 7.21

Fig. 5.7.



Network licenses can be used if CodeMeter is running as a license server.

Left-clicking on the product code designation allows to display detailed information about the license for this product.

5.6.2. Sessions

This tab shows information about all users using the server network licenses (fig. 5.8).



Fig. 5.8.

5.7. Diagnostics

5.7.1. Events

The tab displays information about all processes related to the operation of the CodeMeter license server (fig. 5.9).

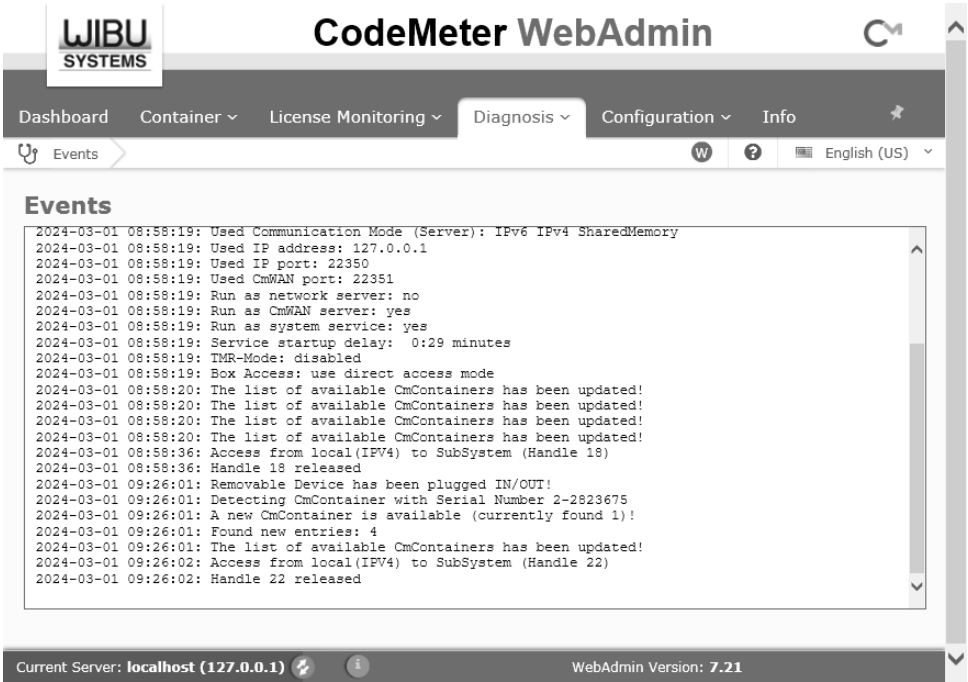


Fig. 5.9.

This information is intended to help you find the causes of errors.



The report will be displayed only if saving the report is enabled in the CodeMeter Control Center program, see section 4.2.3 on p. 14.

5.8. Configuration

5.8.1. Base configuration — Server search list

The tab control elements allow to configure network connections to the server. By default, the client workplace searches for free licenses on all available computers on which CodeMeter is running as a license server. To specify specific computers that can be used as a server, you should specify their domain names or IP addresses in **Server search list** (fig. 5.10).



Fig. 5.10.



Add and **Delete** buttons allow to control the presence of addresses in the list. The up and down arrow buttons allow you to control the order in which addresses are searched on the network. To make the changes take effect, push **Apply** button. CodeMeter program will be restarted. **Restore date** button allows to reset the settings to their default values.

5.8.2. Base configuration — Proxy

If you are using communication via a proxy server, it is necessary to enable its use and set the parameters (fig. 5.11).

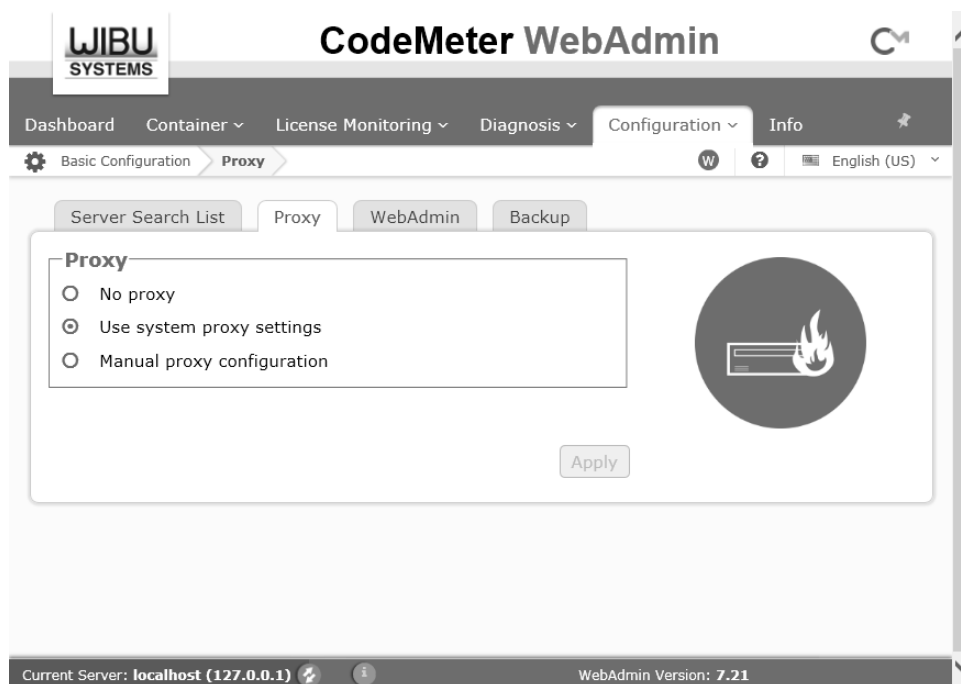


Fig. 5.11.

Enable variant allows to use a proxy server. If it is selected, the fields for setting proxy server parameters become available. If user authentication is used to use the proxy server, enable **Authentication enabled** option and enter the user name and password in the appropriate fields. To make the settings take effect, push **Apply** button.

5.8.3. Base configuration — WebAdmin

Remote Read Access

Deny variant in **Remote Read Access** group allows access to the CodeMeter program settings only from the computer on which the hardware protection key is installed. To provide access to them via the network, choose **Allow** variant.(fig. 5.12).

Protocol Selection

Variants of this group allow to select access protocol.

Required Autentification

Variants of this group allow to select required autentification. If **Write** or **Read and Write** variants are selected, set password.

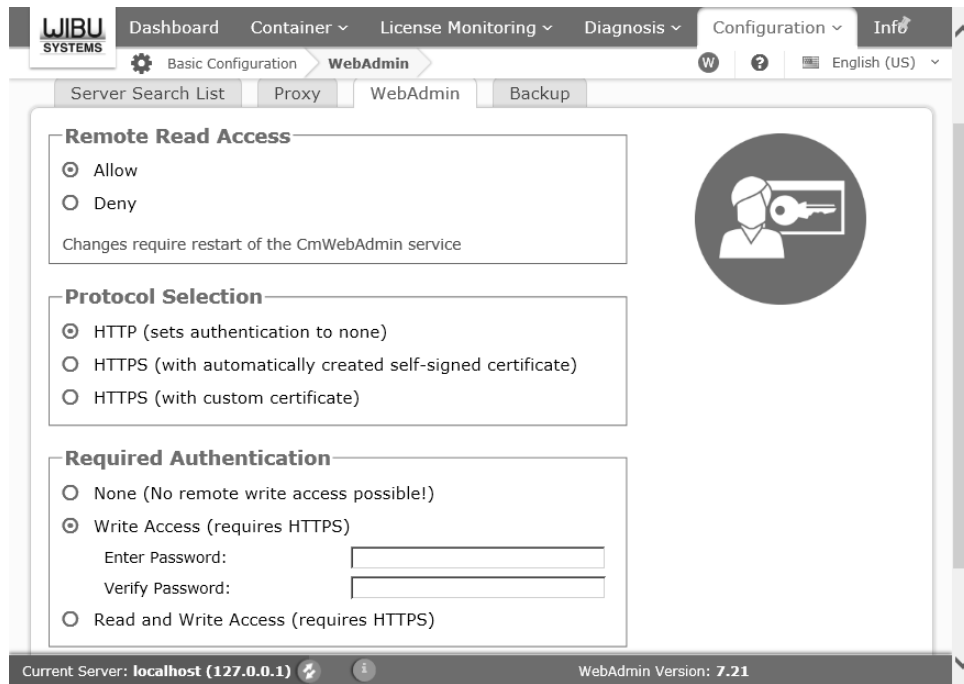


Fig. 5.12.

To make the changes take effect, push **Apply** button. CodeMeter program will be restarted. **Restore default** button allows to reset the settings to their default values.

5.8.4. Base configuration — Backup

The tab control elements allow to configure contents of the CodeMeter key backup (fig. 5.13).

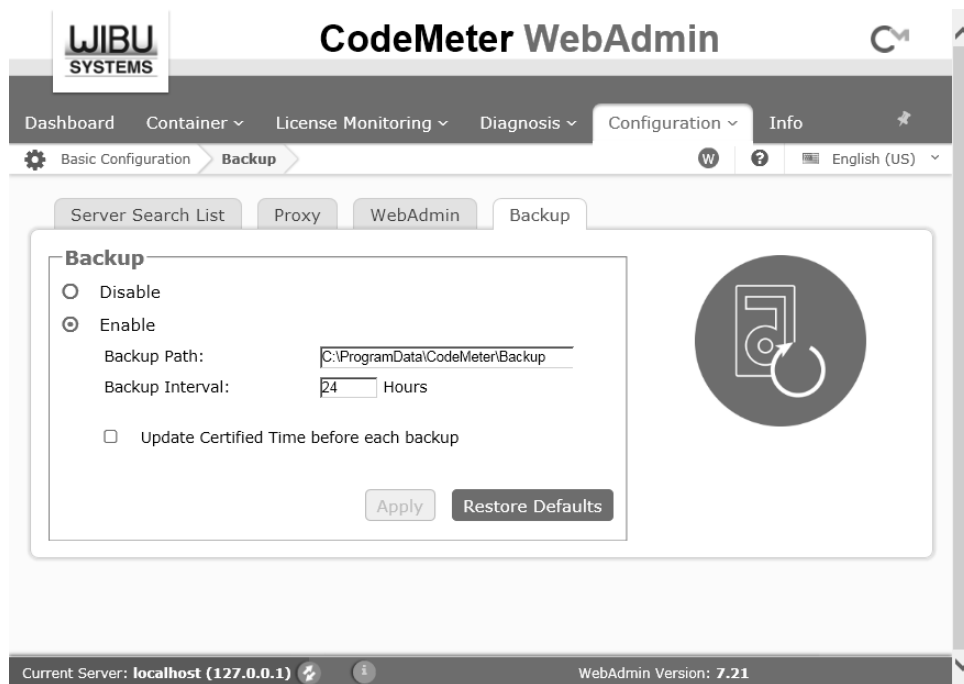


Fig. 5.13.

The contents of the CodeMeter key can be saved to a file on disk. **Disable** and **Enable** variants allow to control backup process. The file name is generated automat-

ically and contains the serial number of the key, as well as the time and date of file creation. The file is assigned the *wbb* extension. **Backup path** field allows to specify a folder for saving backup files. Backup files are created automatically. **Backup interval** field allows to set the time interval in hours between backup sessions. By default, it is 24 hours.

However, the creation of backups can be performed at any time forcibly (see section Backup and Restore on p. 22). **Update certified time before each backup** option allows to synchronize the local time with the certified server time before creating a backup file.

The settings made on the tab take effect only after restarting the program. To restart CodeMeter, push **Apply** button. **Restore Defaults** button allows to reset the settings to their default values.

5.8.5. Server configuration — Server access

The tab control elements allow to control the use of the computer on which the electronic protection key is installed as a license server.

Enable variant in **Network server** group (fig. 5.14) allows to start the license server (see Chapter 3 on p. 11).

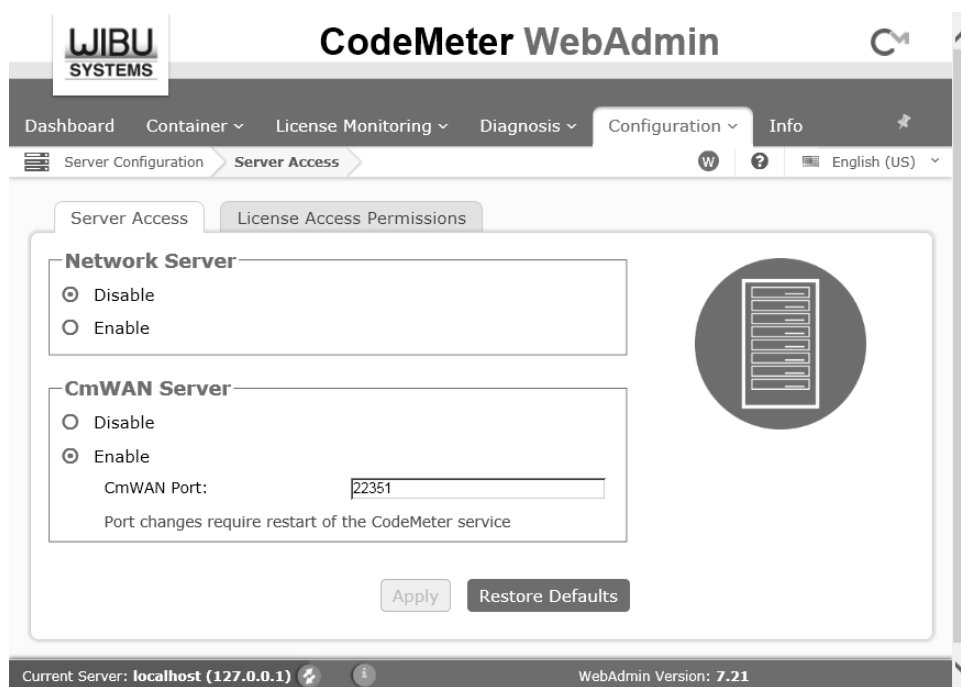


Fig. 5.14.

Enable variant in **CmWAN server** group allows to start server in the Internet with authorization. When this option is selected, a field becomes available in which the port number should be set, by default it is 22351.

The settings made on the tab take effect only after restarting the program. To restart CodeMeter, push **Apply** button. **Restore date** button allows to reset the settings to their default values.

5.8.6. Server configuration — License access rights

Clients list is available in the basic access control mode. It contains the domain names or IP addresses of specific client workplace computers whose users have access to the license server. If the list is empty (fig. 5.15), access to the license server is allowed for all computers.

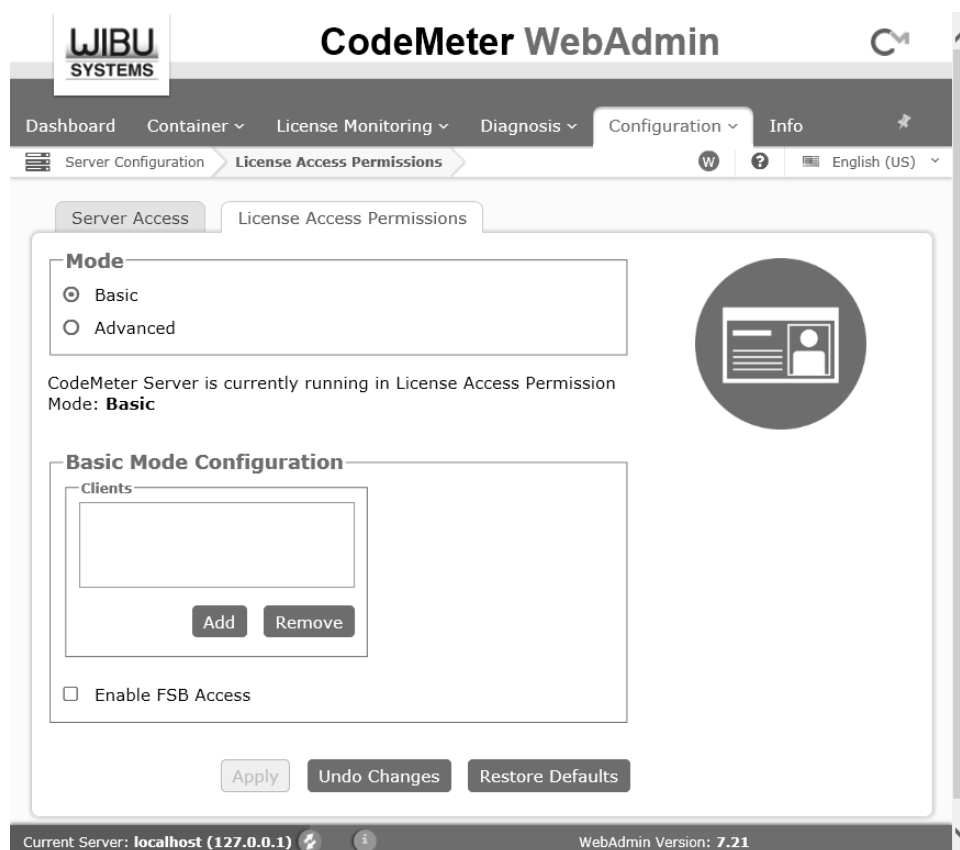


Fig. 5.15.

Add and **Delete** buttons allow to control the presence of addresses in the list. **Enable master key access** option allows to control user access to the main protection key (FSB, Firm Security Box) for programmatically recording licenses into the CodeMeter hardware.

The settings made on the tab take effect only after restarting the program. To restart CodeMeter, push **Apply** button. **By default** button allows to return the settings to their default values.

5.8.7. Advanced Configuration — Time server

CodeMeter Time server list contains a list of servers that are used by the CodeMeter to synchronize time (fig. 5.16).

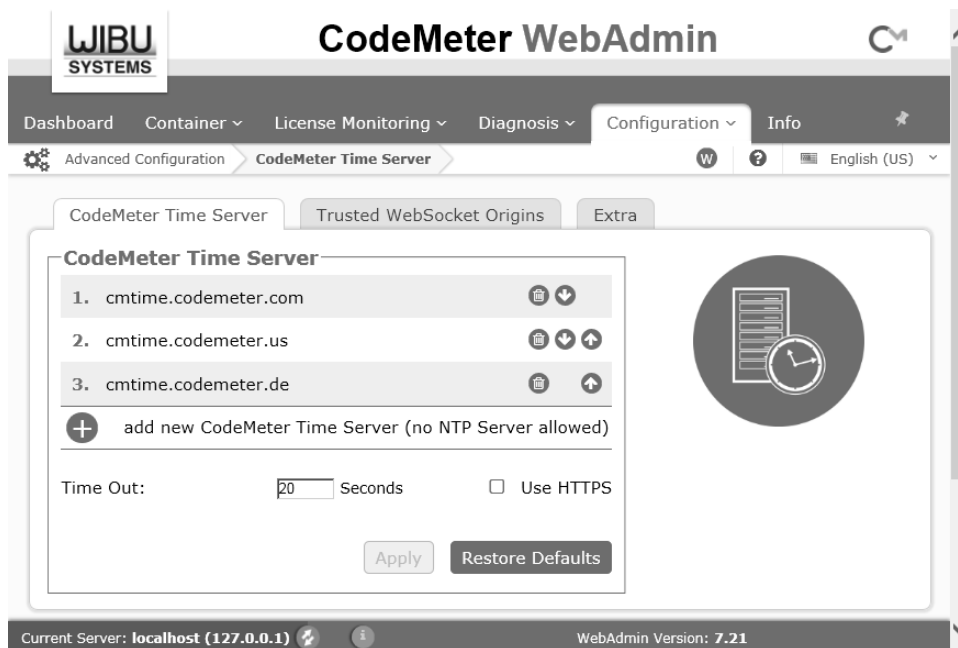


Fig. 5.16.



Add and **Delete** buttons allow to control the presence of addresses in the list. **Up** and **Down** buttons allow to control the order in which addresses are searched on the network. **Timeout:** field allows to set the timeout value for time servers.

The settings made on the tab take effect only after restarting the program. To restart CodeMeter, push **Apply** button. **Restore date** button allows you to reset the settings to their default values.

5.8.8. Advanced Configuration — Extra

Extra tab control elements (fig. 5.17) allow to set program additional parameters.

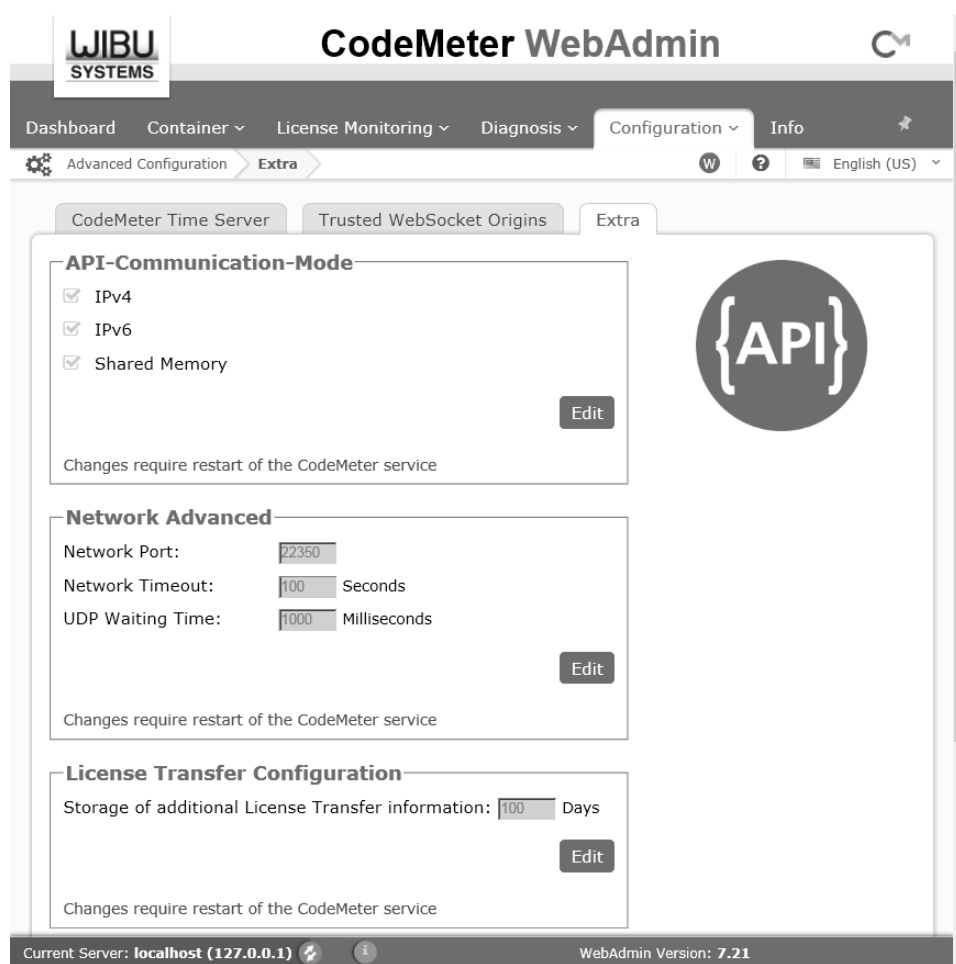


Fig. 5.17.

Options next to parameters names in **API Interaction mode** group allow to control the use of these parameters. To be able to change the options state, push **Change** button.

The completed settings take effect only after restarting the program. To restart CodeMeter, push **Apply** button. **Restore date** button allows to reset the settings to their default values. **Cancel** button allows to cancel the configuration results.

The input fields in **Network** (Advanced) group allow to configure network settings. By default, the program uses port 22350. **Network port** field displays and allows to change the port number if necessary. If a port other than the default is selected, its number must be specified for all network workplaces using CodeMeter. **UDP timeout** field allows to set the maximum value of the time interval during which a response to a request over the UDP protocol should be received. To be able to change the parameter values, push **Edit** button.

5.9. Information

The tab displays the contact information of the security software company WIBU Systems AG (fig.).



Fig. 5.18.