

Network License Server

Administration Guide

Purpose

This document gives instructions for setup and administration of the Bruker network License Server, which uses a single hardware key or "dongle" to authenticate Bruker software on a group of networked computers.

Responsibility

These procedures are to be performed only by trained Bruker personnel or by locally-authorized persons.

Disclaimer

All configurations and specifications are subject to change without notice.

Required Items

The following Table contains a list of items required by this document. It is necessary to have these items available as you work with the document.

Required Items

Item	Description	
<none as="" of="" publication="" this=""></none>		

Referenced Documentation

The following Table contains a list of documentation referenced by this document. It is necessary to have this additional documentation available as you work with this document. In the documents' part numbers, a variable revision number is given immediately after the part number. Always use the most current revisions available.

All of the documents shown may be found at Bruker's comprehensive support site www.brukersupport.com, or on the Online Documentation CD-ROM that accompanies the shipment.

Referenced documentation

Part Number	Title
<none as="" of="" publication="" this=""></none>	

1 License Server System Requirements

For a computer to function as a License Server, it must meet the following requirements:

- License Server functions require Microsoft Windows 7 or XP.
- All computers using the network license must be on the same network.
- At least one Bruker software package must be installed before setting up the License Server.
- The license dongle (also called a "CodeMeter stick") must be connected to one of the License Server's USB ports. If the dongle is plugged in and at least one Bruker software package is loaded, a "CmStick connected" icon Sappears in the taskbar (if the dongle is not present, the taskbar shows a "no CmStick connected" icon .

2 About CodeMeter

Bruker license servers' network settings are controlled by the web-based CodeMeter WebAdmin tool (specifically, the "Configuration" page).

Image Content Server Configuration D) gnosis Info He Host Name: DC1729563 IP Address: 172.16.1.223 Server Version: Version 4.20c of Oct/19/2010 (Build 306) Operating System: Microsoft Windows 7 Business Edition, 64-bit Service Pack 1 (build 7601 Server Startup: Jul/16/2011 03:18:03	CodeMeter	WebAdmin	C
Host Name:DC1729563IP Address:172.16.1.223Server Version:Version 4.20c of Oct/19/2010 (Build 306)Operating System:Microsoft Windows 7 Business Edition, 64-bit Service Pack 1 (build 7601)Server Startup:Jul/16/2011 03:18:03	ne Content Ser	er Configuration Di gnosis Info	Help
IP Address: 172.16.1.223 Server Version: Version 4.20c of Oct/19/2010 (Build 306) Operating System: Microsoft Windows 7 Business Edition, 64-bit Service Pack 1 (build 7601) Server Startup: Jul/16/2011 03:18:03	Host Name:	DC1729563	
Server Version: Version 4.20c of Oct/19/2010 (Build 306) Operating System: Microsoft Windows 7 Business Edition, 64-bit Service Pack 1 (build 7601) Server Startup: Jul/16/2011 03:18:03	IP Address:	172.16.1.223	
Operating System: Microsoft Windows 7 Business Edition, 64-bit Service Pack 1 (build 7601) Server Startup: Jul/16/2011 03:18:03	Server Version:	Version 4.20c of Oct/19/2010 (Build 306)	
Server Startup: Jul/16/2011 03:18:03	Operating System:	Microsoft Windows 7 Business Edition, 64-bit Servi	ce Pack 1 (build 7601)
	Server Startup:	Jul/16/2011 03:18:03	
WebAdmin Version: Version 4.20 of Oct/19/2010	WebAdmin Version:	Version 4.20 of Oct/19/2010	

Figure 2.1 — CodeMeter WebAdmin

3 About WebAdmin's "Configuration" Page

WebAdmin's "Configuration" page (available by clicking **Configuration**) has several subsections. Network license administration requires two of these subsections:

- Access Control, for defining which client computers are allowed to receive licenses (this is typically used if there are multiple License Servers on the same network).
- **Network**, for defining the host server with the attached CM stick as the License Server. It is also used on the Client computers to designate the particular License Server from which the Client will receive its license (in the case of multiple License Servers on the same network). This is also used if the Client computers are on a different subnet, or on different sides of a firewall.

NOTE: Changes to these parameters take effect only after restarting the computer.

4 Common Tasks

4.1 Open CodeMeter WebAdmin

1. Open CodeMeter Control Center by clicking the S button in the Windows taskbar's bottom right-hand corner.

The CodeMeter Control Center main window opens.

Figure 4.1 — CodeMeter Control Center main window

CodeMeter Control Center		×
ile <u>P</u> rocess <u>V</u> iew <u>H</u> elp		
License Events Borrow		
© CmStick 2-1403334	Name:	Ø
	Serial: 2-1403334	9
	Version: CmStick 1.16	<u></u>
	Capacity: 93 % free (366896 Bytes)	
	Status: 🔿 😋 Disabled	
	🔿 😋 Enabled until unplugged	
	🕤 😋 Enabled	
	License Update Eject Change Password	
CodeMeter is started.		WebAdmin

2. Click the WebAdmin button in the main window's lower right-hand corner.

The default web browser opens and navigates to http://localhost:22350, showing the WebAdmin interface.

4.2 Define a Computer as a Network Server

If you install the dongle on a computer that has Bruker software, you can also define the computer as a License Server to provide license authentication for other computers on the network.

1. Under WebAdmin's "Configuration" page, click **Network**.

The "Network" area appears, showing a list of options for the CodeMeter server.

2. Activate the **Run Network Server** checkbox to use the computer as a CodeMeter network server.

NOTE: The computer functions as a Network Server **only** when the checkbox is activated.

Figure 4.2 — Run	Network Server	checkbox	(viewed in	Windows	XP)
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CodeMeter WebAdmin
Home Content Server Configuration Diagnosis Info Help
Network Proxy Access Control Certified Time WebAdmin Backup Borrowing
Network
Bind Address *: All (Default)
Network Port *: 22350
UDP Waiting Time *: 1000 ms
Run Network Server: 🔽
Server Search Eist. add remove up down Apply Default (*) Changes only take effect after restarting CodeMeter

Figure 4.3 — Run Network	Server checkbox (viewed in Windows 7)	
CodeMeter Web	Admin	CM
Home Content Server Confi Network Server Proxy Access Control	guration Diagnosis Info	Help
Bind Address: Run Network S Network Port * Run CmWAN S CmWAN Port * (*) Changes	Server All (Default) erver: 22350 erver: 22351 : 22351 Apply Default only take effect after restarting CodeMeter	

- 3. Click Apply.
- 4. Restart the computer.

4.3 Define a Client-Server Search List

In the "Server Search List" area, you can define the CodeMeter server(s) that are available to be accessed by a certain Client (the Client then only searches for the specified server(s)).

NOTE: This function should be used if the Client computers are on a different subnet, or on different sides of a firewall.

1. Under WebAdmin's "Configuration" page, click **Network**.

The "Network" area appears, showing a list of options for the CodeMeter server.

Figure 4.4 — "Network" area

CodeM	eter WebAdn	nin	C
Home Content	Server Configurati	on Diagnosis Info	Неір
	Bind Address *: Network Port *: UDP Waiting Time *: Run Network Server: Server Search List: (*) Changes only ta	Network All (Default) 22350 1000 ms 0 add remove up Apply Default uke effect after restarting CodeMeter	

- 2. Set the Search List parameters as desired:
 - To add a Server computer to the list, click **Add**. In the dialog box, enter the IP address or DNS name of the Server. Click **OK**.

NOTE: It is recommended to use the CPU's name rather than its IP address.

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Figure 4.5 — Enter the Server's name or IP address

localhost needs some information	X
Script Prompt:	ОК
Enter the Server's name or IP address	Cancel
J	

- To remove a Server, highlight the desired Server in the list and click **Remove**.
- 3. When you are finished, click **Apply**.
- 4. Restart the computer.

4.4 Define Server Access Control

1. Under WebAdmin's "Configuration" page, click Access Control.

The "Access Control" area appears, showing a list of all CodeMeter client computers that may access the CodeMeter server.

NOTE: If the "Clients" list is empty (it is empty by default), all CodeMeter clients may access this CodeMeter network server.

Figure 4.6 — "Access Control" area

CodeMeter WebAdmin	
Home Content Server Configuration Diagnosis Info Network Proxy Access Control Certified Time WebAdmin Backup Borrowing	telp
Access Control Clients *: add remove Access FSB*: enabled Apply Default (*) Changes only take effect after restarting CodeMeter	

2. Add or remove Clients as necessary:

To add a Client computer to the list, click **Add**. In the dialog box, enter the IP address or DNS name of the Client. Click **OK**.

Figure 4.7 — Enter the Client's name or IP address

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localhost needs some information	X
Script Prompt: Enter the Client's name or IP address	OK Cancel

To remove a Client, highlight the desired Client in the list and click **Remove**.

- 3. When you are finished, click **Apply**.
- 4. Restart the computer.

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5 Troubleshooting

5.1 Common Problems and Solutions

Table 5.1 — Common problems and solutions

Problem	Possible Cause(s)	Solution
The dongle is not recognized by the system when it is plugged in locally (i.e., the CodeMeter icon is gray). Note that the icon turns green only when a dongle is plugged in locally.	The dongle uses more power than an ordinary memory stick.	Use a USB port on the backplane, and avoid using a USB hub.
No connection to the license network server.	Network problems.	From the Command Prompt, use the ping <server ip=""> command to test your network connection. If the results indicate no connection, contact your IT department.</server>
	Incorrect settings on the WebAdmin page.	Check your settings in WebAdmin. Use only the settings described in this document (see ***UNRESOLVED***).
	There may be a problem with the dongle's internal firmware if the firmware version is 1.14 and the dongle's serial number is "2-x".	Perform a firmware update using the CodeMeter Control Center.
No access to the network licenses.	The license server's or the client computer's CodeMeter runtime software version is too old.	Perform a CodeMeter runtime update on all computers to the latest version. You can download the latest version from http://www.wibu.de/download_user.php #cm
	Incorrect settings on the WebAdmin page.	Check your settings in WebAdmin. Use only the settings described in this document (see ***UNRESOLVED***).
The WebAdmin application does not open in the web browser.	Incompatible web browser version.	Update your web browser to the latest version. Use Internet Explorer or Firefox.
	A problem occurred during the CodeMeter runtime installation.	Uninstall and reinstall the CodeMeter runtime.
A CodeMeter stick firmware update is not possible, showing the error message "Connection to the update server failed (Error WB5000)".	CodeMeter WebAdmin has incorrect proxy settings.	Configure the proxy in the Configuration page's "Proxy" area.

5.2 Create and Send Diagnostic Files

To get the best support in the event of a problem, create two diagnostic files and send them to Bruker:

- 1. Copy the Event Log to a text file:
 - 1.1 Open the CodeMeter Control Center, and click on the "Events" tab.
 - 1.2 Select all of the events, and copy them to the Clipboard. Paste them into a new text file, and save it.
- 2. From Windows' Start menu, choose **Start > Programs > CodeMeter > Tools > CmDust**.

The diagnostic program opens in a Command Prompt window. When the diagnosis is complete, Windows opens the folder containing the results file "CmDust-Result.log".

3. Contact Bruker Service, and email the two diagnostic files to the address you are given.

6 Network License Server Technical Support

You are invited to contact Bruker whenever there are problems or questions related to the system. Before you contact Bruker, please:

- Have the system's serial number available;
- Determine the system's software version (if you suspect a software problem);
- Record any error messages that appear; and
- Determine steps and conditions that recreate the problem (if possible).

Failure to refer instrument servicing to qualified Bruker personnel may result in injury or property damage!

6.1 Instruments in North America

If the instrument is in North America, contact Bruker's North American Service Center:

 Table 6.1 —
 Bruker AXS North American Service Center contact information

Bruker AXS North American Service Center	
Address:	Bruker AXS Inc.
	Customer Support
	5465 East Cheryl Parkway
	Madison, WI 53711-5373
	USA
Toll-free telephone:	1 (800) 234-XRAY [9729]
Direct line:	1 (608) 276-3000
Fax:	1 (608) 276-9162
E-mail:	Customer.Service@bruker-axs.com
Web:	http://www.bruker-axs.com

6.2 Instruments Outside North America

If the instrument is outside North America, contact Bruker's Karlsruhe Service Center:

Table 6.2 — Bruker AXS Karlsruhe Service Center contact information

Bruker AXS Karlsruhe Service Center	
Address:	Bruker AXS GmbH
	Customer Support
	Östliche Rheinbrückenstr. 49
	76187 Karlsruhe
	Germany
Telephone:	+49 (721) 595-8403
XRD Hotline:	+49 (721) 50997 5200
E-mail:	service@bruker-axs.de
Web:	http://www.bruker-axs.de

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E-mail: info@bruker.com www.bruker.com

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5465 East Cheryl Parkway Madison, WI 53711-5373 USA

Phone: +1 (800) 234-XRAY [9729] Fax: +1 (608) 276-3006

E-mail: info@bruker-axs.com www.bruker-axs.com