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# **Volkswagen Group Reference CATIA Lite**

VWGRCLite “License Borrowing”  
Borrowing FlexNet Licenses under Windows  
EN

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2.0.0		Enabling_FlexNet_License_for_VWGRCLite.pdf

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## Preface

For the creation of this documentation, the following programs were used:

- Microsoft® Windows 7® Enterprise Service Pack 1
- FlexNet® License Manager v11.12.1.4
- VWGRCLite 5.4.1.0

If not stated otherwise, this documentation also applies to other Microsoft® Windows® operating system versions, FlexNet®-versions of VWGRCLite approved by VOLKSWAGEN.

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# 1 General

This document briefly describes the "Borrowing" of VWGRCLite CAx Floating licenses, as is currently possible.

"*Other applicable documents*" referred to at various points in this document, are to be observed.

The use of "Borrowing" is at your own risk and will not be supported individually in case of problems!

"Borrowing" allows the user to borrow floating licenses from the FlexNet license server. The borrowed licenses can be used locally on the machine without connection to the license server (offline) for a specified period.

The following topics are covered:

- Prerequisites
- Procedure of "Borrowing" ("lmtools", "lmutil", Variable LM\_BORROW)
- Optional control options of borrowing (opt-file)
- Examples for error screens

The figures and scenarios in this document are examples only. Your own installation may differ from these examples.

For more information, please see the FlexNet 11.12 Original Product Documentation.

Due to capacity reasons and permanently changing boundary conditions, VWGRCLite as well as the license framework are in a continuous development process. Thus possible extensions of the functionality of "Borrowing" might not always have been documented promptly.

## 1.1 Readership

This document is intended for FlexNet VWGRCLite administrators who want to enable their users to borrow VWGRCLite CAx license features.

It is strongly recommended that the administrator informs the users about the company-specific borrowing rules and the borrowing process.

### 1.1.1 Convention VWGRCLite CAx licenses with key word "BORROW"

As of January 1st 2016, all new VWGRCLite floating licenses are delivered with "Borrowing" functionality.

**Note:** Nodelocked licenses are excluded from "Borrowing". By storing the Nodelocked license file locally and by corresponding configuration of the VWGRCLite system variable "VWGRCLITE\_LICENSE\_PATH", offline use is possible.

Depending on the underlying license model, the license features for a possible "Borrowing" are set up. The maximum borrowing duration, which can be seen in the key word "BORROW" in the license feature line, can be found in table 1-1 below. The borrowing period is limited by the license period. Borrowing is only possible as long as the license is valid.

If you have an older, but still valid floating license for which you want to use "Borrowing", as of January 1st 2016 you can apply for a license switch. The license switch is **not** free of charge and will be checked for plausibility! The necessary form can be found under following link: <https://servicenet.t-systems.com/orderprocess>.

Floating License Feature	License Definition on maximum borrowing duration in hours (BORROW=<hours>)  <b>Note:</b> The borrowing period is generally limited by the license period
VWGRCLITE	BORROW=9528 → License period
All other VWGRCLite CAx License features, e.g.: CV5_VALIDAT_BASIC CV5_NTOOL CV5_OUTGEN CV5_VTA CV5_NETLINE CV5_CADGLYPH CV5_BOMTOKSL CV5_ELENA CV5_EETOOLS usw.	BORROW=169 → 1 week plus 1 hour

Table 1-1 Overview License features / maximum borrowing duration

**Note:** For borrowed licenses the licensing law is to be observed also. A transfer of the license to a third party, unauthorized licensees or users is prohibited!

## 2 Prerequisites (To-Do Administrator)

To use "BORROWING", the following is necessary:

- [FlexNet Server 11.12.1.4 with VW Daemon \(vwagkdoe\)](#)
- [VWGRCLite Installation as of version 5.4.1.x](#)
- [FlexNet System Variable LM\\_LICENSE\\_FILE](#)
- [VWGRCLite CAX Licenses with Key Word "BORROW" in the license feature lines](#)
- [FlexNet Tools: lmtools / lmutils](#)

### 2.1 FlexNet license server

The Flexera FlexNet License Manager is installed on a server in the network and is configured for the use of VWGRCLite CAX licenses

The FlexNet Service is up and running. The floating licenses provided in the license file can be used by the client. For details, see document "Enabling\_FlexNet\_License\_for\_VWGRCLite.pdf".

The configured license file contains VWGRCLite CAX [License feature with Borrow-attribute](#).

FlexNet 11.12.1.4 is released for the VWGRCLite Borrowing functionality. The software and documentation can be found on T-Systems ServiceNet under the following link: <https://servicenet.t-systems.de/flexlm>.

### 2.2 VWGRCLite environment is installed and executable interactively

VWGRCLite has been installed and configured on the client. The environment variable "VWGRCLITE\_LICENSE\_PATH" has been set up according to the license server and VWGRCLite can be started if a network connection to the license server is available.

As of VWGRCLite 5.4.1.x, "Borrowing" is supported by VWGRCLite CAX applications (e.g.: Validat, NTool, Netline, VTA, RPS, LTA, KVS PlugIn).

In one step of the borrowing process, VWGRCLite can be started interactively (GUI) or via the command line (catstart.bat). The examples used in this document were started via VWGRCLite GUI.

## 2.3 FlexNet system variable LM\_LICENSE\_FILE

The FlexNet variable "LM\_LICENSE\_FILE" has to be set on the client machine.

Details on the use of the variable LM\_LICENSE\_FILE can be found in the original FlexNet Product Documentation.

In general, the value from variable VWGRCLITE\_LICENSE\_PATH can be adapted to variable LM\_LICENSE\_FILE.

*Example Windows 7 computer with German locale:*

*Start \ Control Panel*

*→ System and Security*

*→→ System*

*→→→ Advanced System Settings*

*→→→→ Environment Variables*

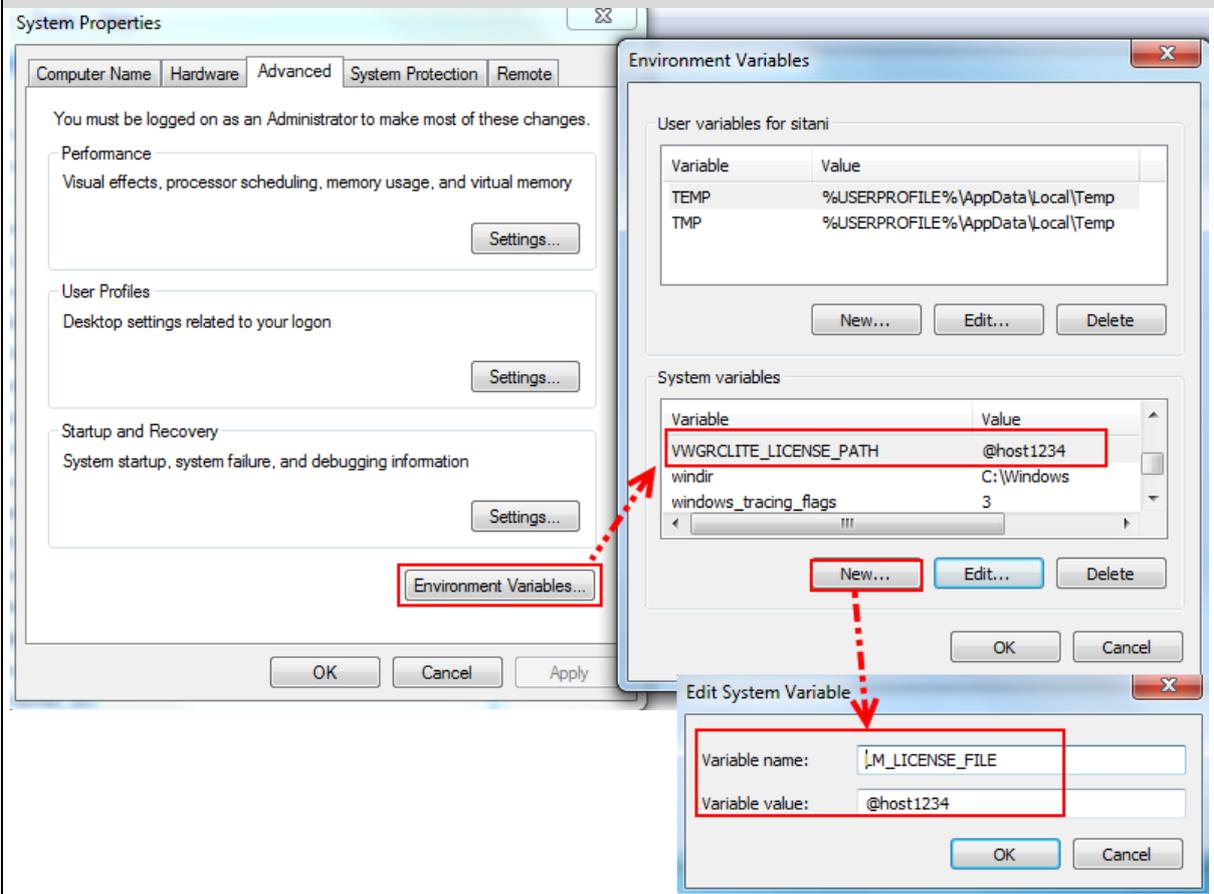
*→→→→enter LM\_LICENSE\_FILE manually under system variables*

**Note:** When specifying several values for LM\_LICENSE\_FILE on Windows, the semicolon ";" has to be used as separator.

### Example 1: Variable LM\_LICENSE\_FILE defined with a FlexNet Server

Example with a FlexNet Server for VWGRCLite CAx Licenses.

*Example Windows 7 computer with German locale:  
Start \ Control Panel  
→ System and Security  
→→ System  
→→→ Advanced System Settings  
→→→→ Environment Variables  
→→→→enter LM\_LICENSE\_FILE manually under "system variables"*



The environment variable LM\_LICENSE\_FILE may contain the value: [Port]@[Server] or @[Server]. Here it has the value "@host1234"; the same value is set for VWGRCLITE\_LICENSE\_PATH.

Note: Save all changes by clicking the button "OK" in each individual open dialog. Otherwise changes will not be saved.

#### Example 2-1 Variable LM\_LICENSE\_FILE defined with a FlexNet server

**Example 2: Variable LM\_LICENSE\_FILE defined with two values**

Example with a VWGRCLite CAx Nodelock license file (here: C:\Lic\ValBasicNode.dat) and a FlexNet Server (here: @host1234). **Note:** For licenses in a Nodelock license file, Borrowing does not have to be carried out!

*Example Windows 7 computer with English locale:*

Start \ Control Panel

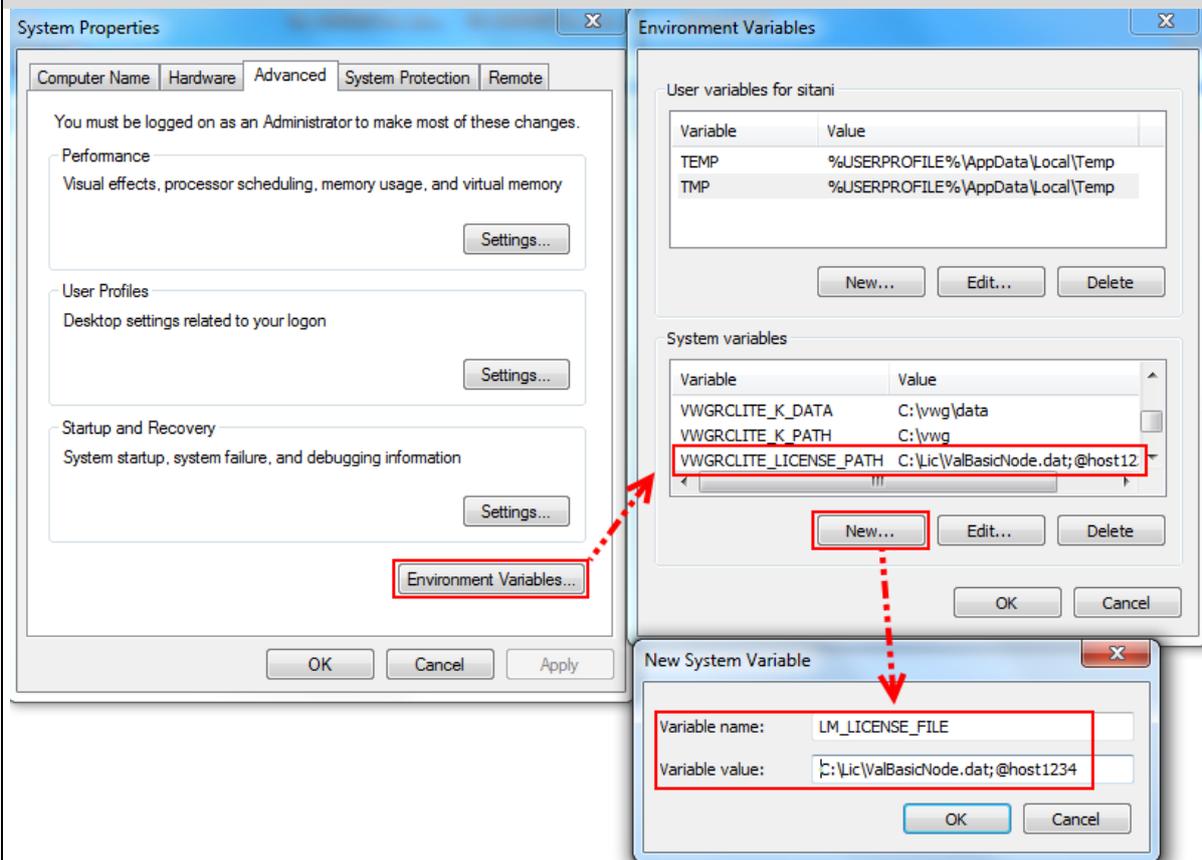
→ System and Security

→→ System

→→→ Advanced System Settings

→→→→ Environment Variables

→→→→enter LM\_LICENSE\_FILE manually under "system variables"



LM\_LICENSE\_FILE has the value "C:\Lic\ValBasicNode.dat;@host1234"

Note: Save all changes by clicking the button "OK" in each individual open dialog. Otherwise changes will not be saved.

Example 2-2 Variable LM\_LICENSE\_FILE defined with Nodelocked license file and FlexNet Server

## 2.4 License feature with Borrowing attribute

Borrowing FlexNet licenses is only possible if the "Borrowing attribute" has been added to the respective license feature during license generation. For further details, please see [Convention VWGRCLite CAX licenses with key word "BORROW"](#).

For the features "VWGRCLITE" and "CV5\_VALIDAT\_BASIC", such a license could look like this (Figure 2-1):

```

1 #Firma: Company XY
2 #Lizenz-ID: 3644220572.29
3 #=== Anfang der Lizenz ===
4 SERVER host1234 ECF4BB1185FE
5 DAEMON vwagkdoe
6 FEATURE VWGRCLITE vwagkdoe 1.0 31-mar-2016 9999 BORROW=9528 \
7     SIGN="08CE DB91 BC7F 39A8 BCAA 5A16 339D 91FD 62FE 121C CE51 \
8     80EB AEAD D54E 1035 0D2C 2552 938A 69B2 10D8 B802 64AE 518B \
9     31AD 5303 C9CA AC5E 219F 990A B03C"
10 FEATURE CV5_VALIDAT_BASIC vwagkdoe 1.0 31-mar-2016 2 BORROW=169 \
11     SIGN="01D6 2788 9A15 2429 85F0 498C F18E A6CC 4BBB 7E07 2EDA \
12     4E47 11EF 9A2D 5C31 0415 650C 3719 475D CF86 F444 D669 E110 \
13     7510 6C7F C1B3 AD8C 5D39 8E87 80A0"

```

Figure 2-1: Example license with Borrow

### Explanations:

**9999 BORROW=9528**

9999 → the number of licenses (here 9999 for the feature VWGRCLITE)

BORROW=9528 → the borrowing attribute with number of hours indicating the maximum borrowing duration of a license (here 9528 hours → as the license period generally is one year, the license feature VWGRCLite can be borrowed for the entire term of the license period). In addition, the borrowing period is limited by the license period (in this example March 31st 2016).

**2 BORROW=169**

2 → the number of licenses (here 2 for the feature CV5\_VALIDAT\_BASIC → Validat Basic)

BORROW=169 → the borrowing attribute with number of hours indicating the maximum borrowing duration of a license (here 169 hours → 1 week plus 1 hour)

In addition, the borrowing period is limited by the license period (in this example March 31st 2016).

### **Notes:**

The number of VWGRCLite licenses as well as the borrowing duration are set at generation of the license and may not be changed in the license file!

If necessary, the borrowing duration and the number of licenses to be borrowed can be further restricted by the administrator. More details can be found in [chapter 4](#).

## 2.5 Windows FlexNet utilities

The FlexNet programs "Imgrd" and "vwagkdoe" are not required for borrowing on the client.

FlexNet provides the utilities "Imtools" and "Imutil" for administration. "Borrowing" can be done interactively via "Imtools" or via the command line with "Imutil".

Here, entries in the Windows registry are made by FlexNet:

```
Computer\HKEY_CURRENT_USER\Software\FLEXIm License Manager\Borrow
```

Figure 2-2: Registry entry for "Borrowing"

Both tools are contained in the provided FlexNet package and are available after unzipping (see figure 2-3)

For further details, see "Enabling\_FlexNet\_license\_for\_VWGRCLite.pdf".

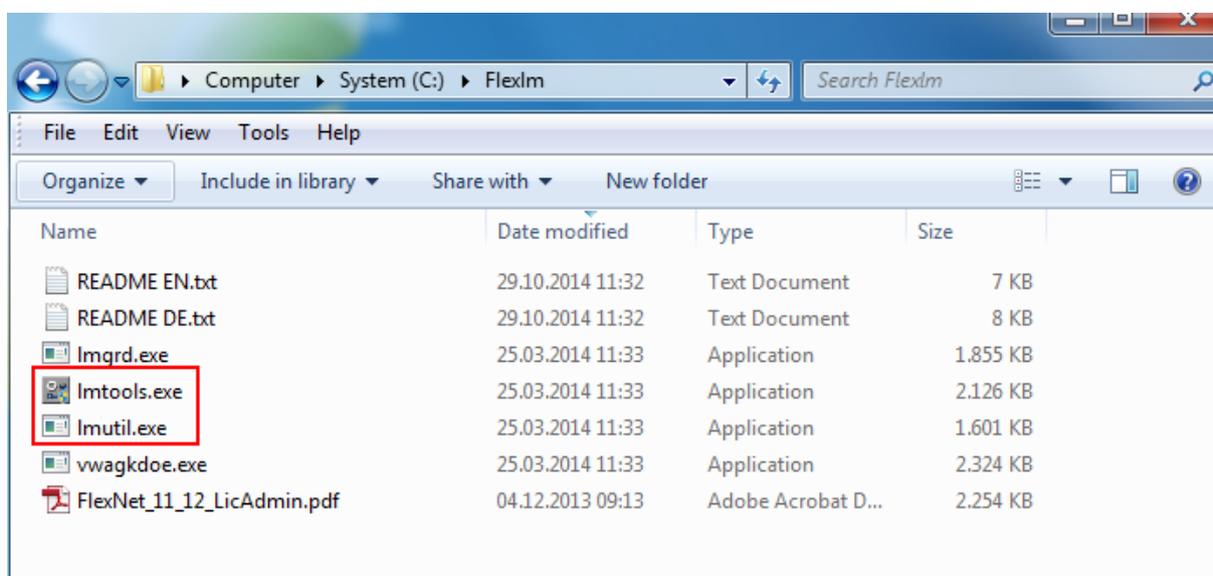


Figure 2-3: Example FlexNet software and documentation in directory C:\FlexIm

If you want to make the utilities "Imtools" or "Imutil" available to your users (e.g. by copying Imutil.exe or Imtools.exe to a place suitable for the users) you must ensure that permissions remain in the desired limits.

You must inform the users about the handling, the possibilities and restrictions.

The examples shown in chapter 3 may possibly help to decide how to provide the utilities in your environment.

### 3 Procedures of "Borrowing"

"Borrowing" allows to borrow licenses from the license server. The borrowed licenses can be used locally on the machine without connection to the license server (offline) for a specified period.

The use of LMTOOLS, Imutil and the special variable LM\_BORROW for "Borrowing" is largely described in the subchapters by means of examples.

The following points will be considered in the course of Borrowing:

- Initialization of the borrowing mode
- Borrowing licenses
- Determination of the borrowing status
- Switching off the borrowing mode
- Testing of the borrowed license
- Returning the license:
  - by early return
  - after expiration of the borrowing duration

At the end of chapter 3, the steps for a possible [Borrowing scenario from user's perspective](#) are listed.

The prerequisites described in [chapter 2](#) must all be fulfilled!

Reminder: A borrowed license is deducted from the number of licenses on the license server and will no longer be available as floating license for the duration of the borrowing.

Possible consequence:

If only one Validat basic license (license feature name CV5\_VALIDAT\_BASIC) is available on the license server and if it is borrowed, no other floating license will be available for the borrowing period. Only the user that borrowed the license for his computer will be able to work with Validat Basic.

### 3.1 FlexNet utility LMTOOLS

"Imtools" is a FlexNet admin tool which can be used for much more than just "Borrowing". In the following, only the parts necessary for "Borrowing" are described. For more information, please see the FlexNet 11.12 Original Product Documentation.

Double-click to run the FlexNet utility "Imtools.exe".

LMTOOLS GUI opens.

Switch to register "Borrowing" (figure 3-1).

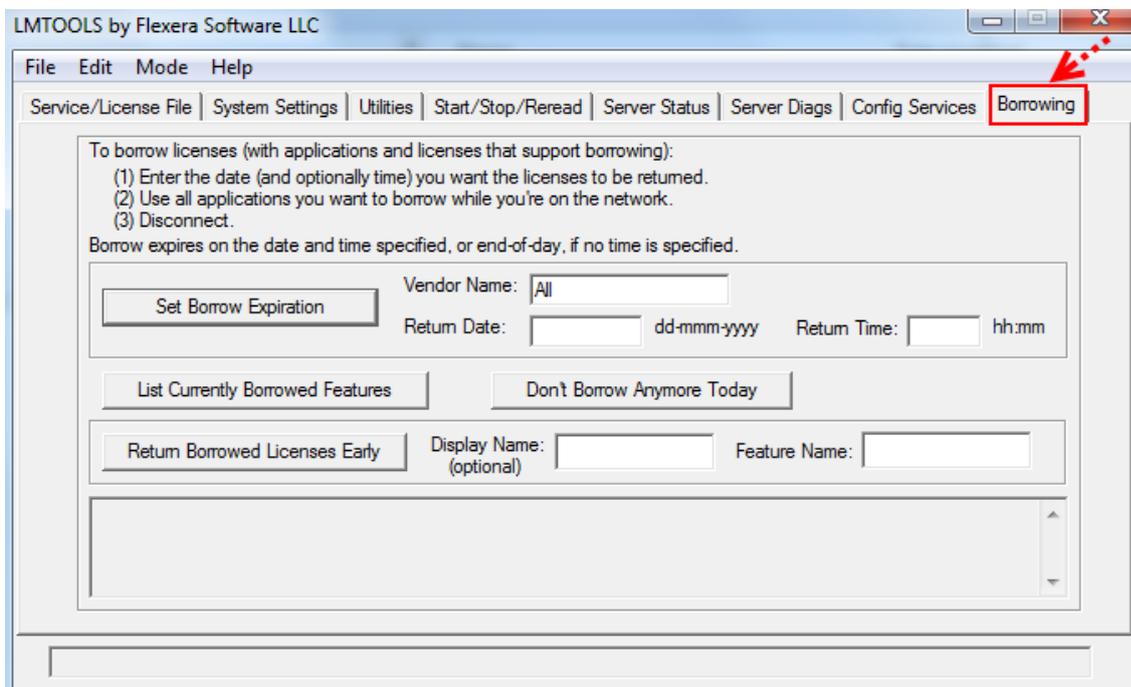


Figure 3-1 LMTOOLS Register Borrowing

### 3.1.1 Initialization of the borrowing mode

Licenses can only be borrowed the day the borrowing mode was initialized. By [switching off the borrowing mode](#) this time slot can be prematurely terminated.

Register "Borrowing" section "Set Borrow Expiration" (figure 3-2)

Enter "Vendor Name" and „Return Date“, „Return Time“ is optional.  
Confirm entry by clicking "Set Borrow Expiration".

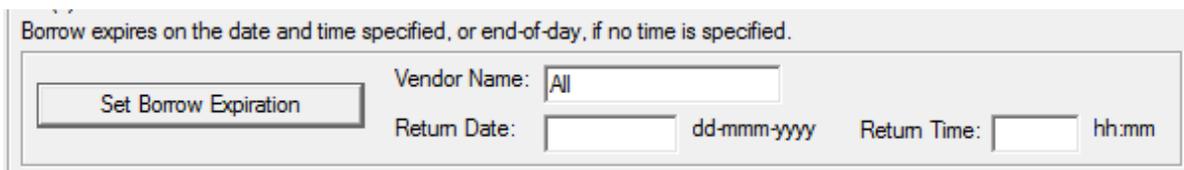


Figure 3-2 Borrowing: "Set Borrow Expiration"

**Vendor Name:** Either "all" or the specific Vendor Daemon name. If a specific Vendor Daemon is indicated, only licenses from this Daemon can be borrowed. The Vendor Daemon for VWGRCLite CAx license features is "vwagkdoe".

**Return Date:** dd-mmm-yyyy → Format of the return date

This value may not exceed the license validity indicated in the license file and the maximum borrowing duration in "[BORROW](#)". Further restrictions may exist when using an [opt-file](#).

Note on "mmm": English three-digit months (jan, feb, mar, apr, mai, jun, jul, aug, sep, oct, nov, dec)

**Return Time:** [hh:mm] → Return time. The entry is optional. If not specified, the end of the last borrowing day is valid (24:00).

**Example: Initialization of the borrowing mode**

Registry "Borrowing"  
 Volkswagen Vendor Daemon Name=vwagkdoe  
 Return date=29.09.2015 and Return Time=15:50

Borrow expires on the date and time specified, or end-of-day, if no time is specified.

Set Borrow Expiration    Vendor Name:

Return Date:  dd-mmm-yyyy    Return Time:  hh:mm

Click

Output in status field:

```
=====
lmborrow
=====
Setting LM_BORROW=29-sep-2015:vwagkdoe:29-sep-2015:15:50
```

Explanation:  
 First date (29-sep-2015): Borrowing date. On this day, licenses can be borrowed  
 Daemon Name (vwagkdoe): only license features created for this Daemon can be borrowed  
 Second date and time (29-sep-2015:15:50): Return date and time for a borrowed license. Note: If required, borrowed licenses can be returned early.

**Additional information:**  
 The Key "LM\_BORROW" can then be found in the registry:

Computer\HKEY\_CURRENT\_USER\Software\FLEXlm License Manager\Borrow

Name	Type	Data
(Default)	REG_SZ	(value not set)
infoborrow	REG_BINARY	00
LM_BORROW	REG_SZ	29-sep-2015:vwagkdoe:29-sep-2015:15:50

Example 3-1 LMTTOOLS: initialization of the borrowing mode

### 3.1.2 Borrowing of licenses

After successful initialization, licenses can be borrowed. For further details, please see [Borrowing of VWGRCLite CAx licenses](#).

### 3.1.3 Determination of the Borrowing status

Registry "Borrowing", Button "List Currently Borrowed Features". The information output is shown in the status field. (Figure 3-3).

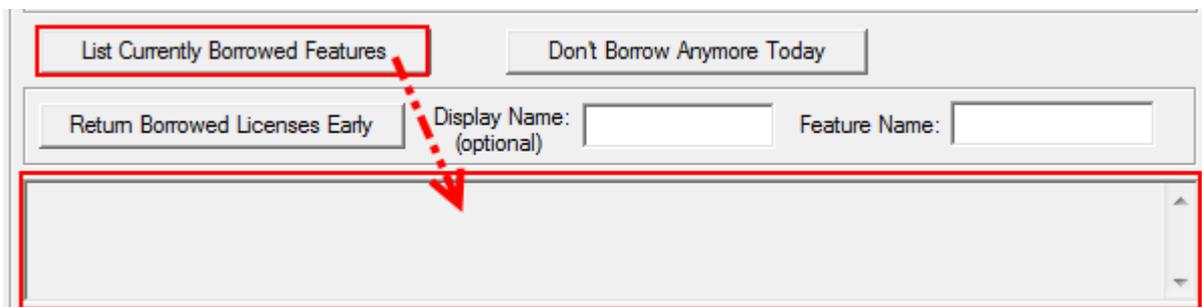


Figure 3-3 Borrowing: "List Currently Borrowed Features"

**Note:** The borrowed license feature generally shows 1 minute less than the borrowing end specified at initialization.

#### Example: Determination of the Borrowing status

The underlying license file see figure 2-1.

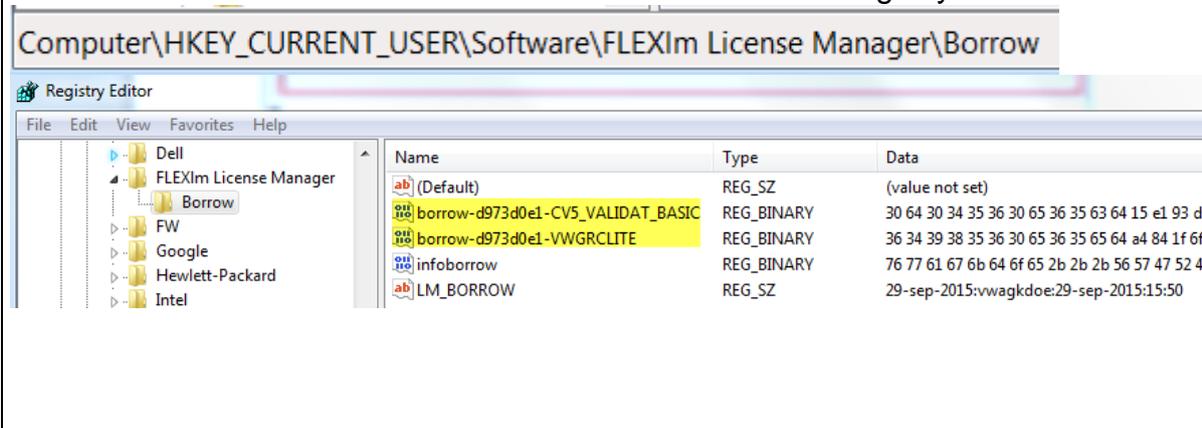
Check borrowed license feature with List Currently Borrowed Features  
 Output in status field:

```

=====
List All Currently Borrowed Features
=====
Vendor   Feature                               Expiration
-----
vwagkdoe VWGRCLITE                          29-Sep-15 15:49
vwagkdoe CV5_VALIDAT_BASIC                29-Sep-15 15:49
    
```

#### Additional information:

Information on borrowed licenses can then be found in the registry:



Example 3-2 LMTTOOLS: Determination of the borrowing status

### 3.1.4 Switching of the Borrowing mode

Licenses can only be borrowed the day the borrowing mode was initialized. By [switching off the borrowing mode](#) this time slot can be prematurely terminated.

Register "Borrowing", Button "Don't Borrow Anymore Today". The information output is shown in the status field (figure 3-4).

The borrowing mode is terminated. No further licenses can be borrowed. The status of already borrowed licenses is not changed.

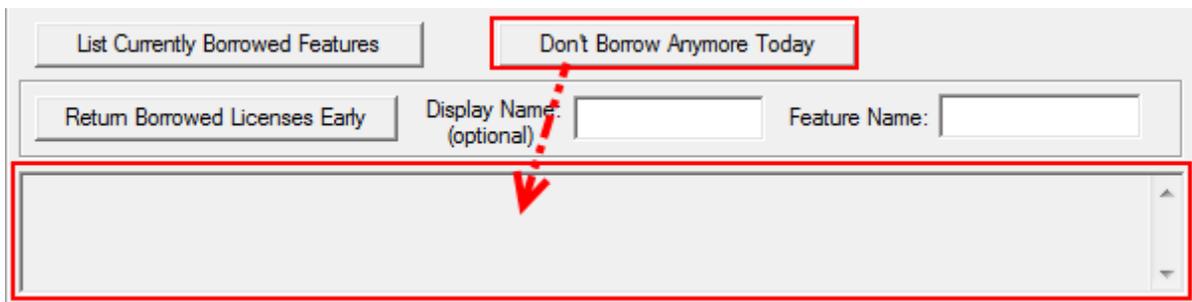
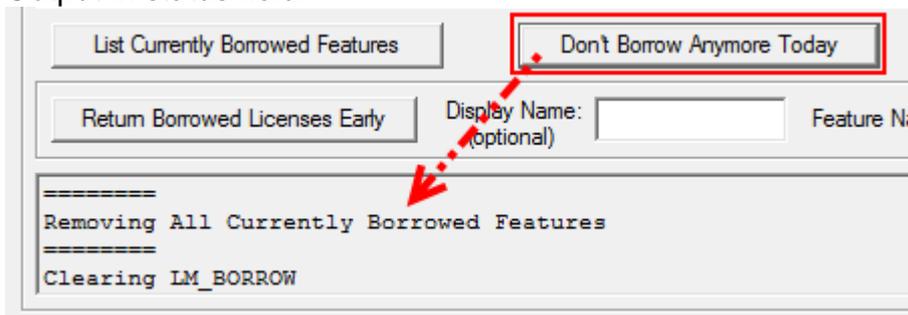


Figure 3-4 Borrowing: "Don't Borrow Anymore Today"

**Example: Switching off the Borrowing mode**

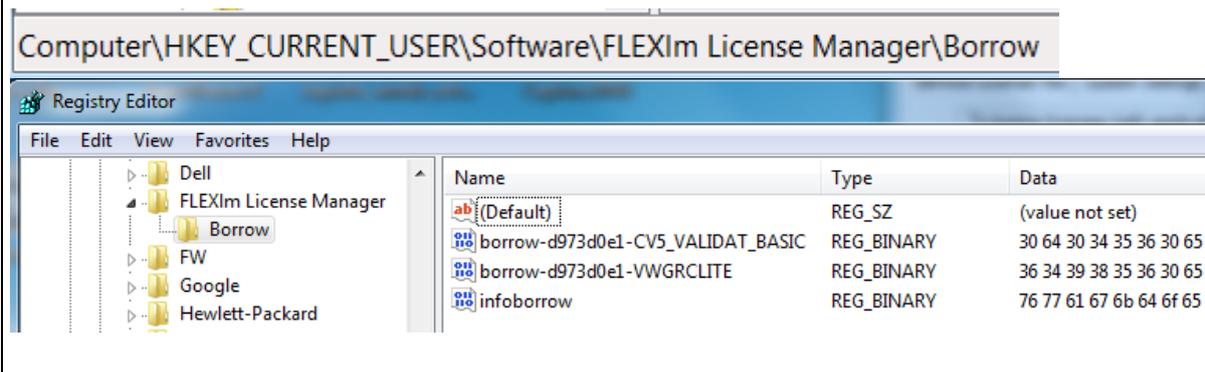
Click

Output in status field:



**Additional information:**

The Key "LM\_BORROW" is no longer found in the registry:



Example 3-3 LMTTOOLS: Switching off the borrowing mode

3.1.5 Tests for the use of offline licenses

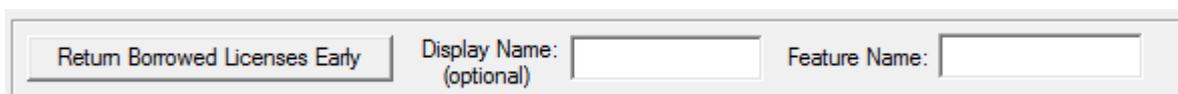
See chapter "[Test of borrowed licenses](#)".

### 3.1.6 Early return of a license

**Note:** The client computer must be connected to the network to reach the FlexNet license server. The FlexNet license server must be running.

Register "Borrowing" section "Return Borrowed Licenses Early"

Enter "Feature Name" and click "Return Borrowed Licenses Early". Information is shown in the status field.



The image shows a software dialog box with a light gray border. On the left is a button with the text "Return Borrowed Licenses Early". To the right of the button are two text input fields. The first is labeled "Display Name: (optional)" and the second is labeled "Feature Name:". Both input fields are currently empty.

**Display Name:** Optional. For Windows it is the system name of the client (Host-name). Attention: The name is case-sensitive!

**Feature Name:** The spelling of the feature name can be seen in the license file. Attention: The name is case-sensitive!

**Example: Early return of a license feature**

For the early return of the VWGRCLITE license, enter "VWGRCLITE" in the field

„Feature Name“

and click

Output in the status field:

```
=====
Returning Borrowed Licenses Early
=====
Feature "VWGRCLITE" returned successfully..
```

Check the borrowing status with

Output in the status field:

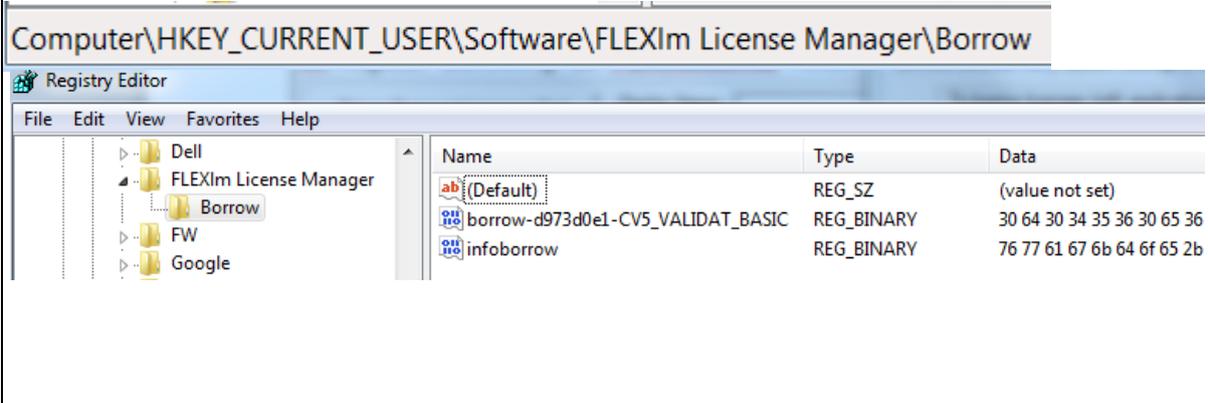
```
=====
List All Currently Borrowed Features
=====
Vendor   Feature                               Expiration
-----
vwagkdoe CV5_VALIDAT_BASIC                     29-Sep-15 15:49
```

Explanations:

The license feature "VWGRCLITE" was returned and is no longer borrowed. The license feature "CV5\_VALIDAT\_BASIC" is still borrowed (regular return date / time: 29.09.2015 15:49)

**Additional information:**

Only the information on "CV5\_VALIDAT\_BASIC" is found in the registry



Example 3-4 LMTTOOLS: Early return of a license feature

### 3.1.7 Return of the license after expiration of the regular Borrowing period

The license is returned automatically at the end of the regular borrowing period.

After expiration of the regular borrowing period, the license cannot be used any more by the client. The server returns the expired license to the license pool. The client does not have to be connected to the server.

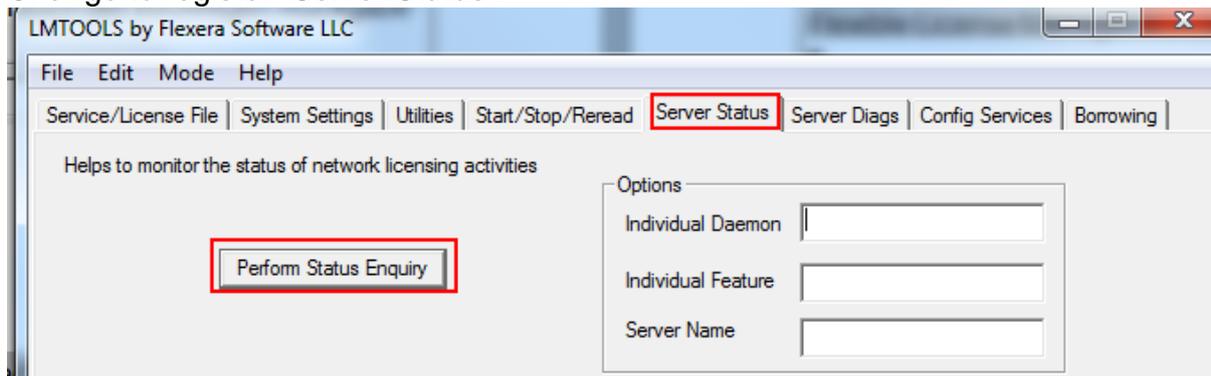
**Example: Return of the license after expiration of the regular Borrowing period**

**Note:** Borrowing status check for license features expired regularly:

The display of  in the register "Borrowing" possibly is not up to date because of an old entry in the registry.

**Alternative:**

Change to register "Server Status".



If "Perform Status Enquiry" is clicked without further options, the whole status is displayed without filtering. It can be viewed by scrolling the status field.

**In this example:**

Extract information in the status field

```
Users of CV5_VALIDAT_BASIC: (Total of 2 licenses issued; Total of 1 license in use)
"CV5_VALIDAT_BASIC" v1.0, vendor: vwagkdoe, expiry: 31-mar-2016
floating license
  sitani host1234 host1234 (v1.000) (host1234/27005 102), start Tue 9/29 15:30
(linger: 1140)
```

Explanations on the output

Line1 shows the total number of licenses (Total of 2 licenses issued) for the license feature (CV5\_VALIDAT\_BASIC) and how many of them are in use (Total of 1 li-

cense in use)

Line 2 shows the required Vendor Daemon (vendor: vwagkdoe) and the expiration date of the license (expiry: 31-mar-2016)

Line 3 shows which user (sitani) borrowed the license feature and when (start Tue 9/29 15:30). The possible borrowing duration is specified in seconds (linger: 1140 → 19 minutes → regular end of borrowing: 15:49)

After expiration of the license (15:50), the status is displayed correctly:

Users of CV5\_VALIDAT\_BASIC: (Total of 2 licenses issued; Total of 0 licenses in use)

Explanation:

The license feature (CV5\_VALIDAT\_BASIC) is currently not in use (Total of 0 licenses in use).

**Tip:** A better solution for "Borrowing" status request is offered by the [Command line: "lmutil lmborrow -purge -status"](#). Using the option "-purge", expired licenses are deleted.

Example 3-5 LMTTOOLS: Return of the license after expiration of the regular borrowing period

## 3.2 FlexNet utility "lmutil"

"lmtools" is a FlexNet admin tool which can be used for much more than just "Borrowing". In the following, only the parts necessary for "Borrowing" are described. For more information, please see the FlexNet 11.12 Original Product Documentation.

Open Windows cmd.: Start → run cmd.exe (figure 3-5)



Figure 3-5 Windows cmd

Go to FlexNet installation directory. In the example FlexNet installation directory: C:\FlexNet.

General function test and syntax overview via help output "lmutils lmborrow -help" (figure 3-6)

```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\sitani>cd c:\Flexlm
c:\Flexlm>dir
Volume in drive C is System
Volume Serial Number is 928C-9296

Directory of c:\Flexlm

01.10.2015  13:10    <DIR>          .
01.10.2015  13:10    <DIR>          ..
04.12.2013  10:13                2.307.461 FlexNet_11_12_LicAdmin.pdf
23.04.2015  13:20                1.931.008 lmgrd.exe
23.04.2015  13:20                1.927.936 lmtools.exe
23.04.2015  13:20                1.678.592 lmutil.exe
01.10.2015  10:08                5.972 logfile.log
29.10.2014  12:32                7.461 README DE.txt
29.10.2014  12:32                7.144 README EN.txt
23.04.2015  13:20                2.359.296 uwagkdoe.exe
            8 File(s)          10.224.870 bytes
            2 Dir(s)          91.762.085.888 bytes free

c:\Flexlm>lmutil lmborrow -help
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.

Usage: lmborrow <all!vendorname> dd-mm-yyyy [hh:mm]    <To borrow>
lmborrow -status                                     <Report features borrowed to this node>
lmborrow -purge                                       <Remove expired features>
lmborrow -purge -status                               <Remove expired features and Report non-expired features>
lmborrow -clear                                       <Changed your mind -- do not borrow>
lmborrow -return [-c licfile] [-d display_name] [-fqdn] [-vendor name] feature
lmborrow -help                                       <Display usage information>

c:\Flexlm>
  
```

Figure 3-6 Example Windows CMD: Help output of "lmutil lmborrow"

### 3.2.1 Initialization of the Borrowing mode

Licenses can only be borrowed the day the borrowing mode was initialized. By [switching off the borrowing mode](#) this time slot can be prematurely terminated.

Syntax command:

```
lmutil lmborrow {all|vendorname} dd-mmm-yyyy [hh:mm]
```

**{all|vendorname}** → Either "all" or the specific Vendor Daemon name. If a specific Vendor Daemon is indicated, only licenses from this Daemon can be borrowed. The Vendor Daemon for VWGRCLite CAx license features is "vwagkdoe".

**dd-mmm-yyyy** → Format of the return date

This value may not exceed the license validity indicated in the license file and the maximum borrowing duration in "[BORROW](#)". Further restrictions may exist when using an [opt-file](#).

Note on "mmm": English three-digit months (jan, feb, mar, apr, mai, jun, jul, aug, sep, oct, nov, dec)

**[hh:mm]** → Format of the return time. The entry is optional. If not specified, the end of the last borrowing day is valid (24:00). Note: The borrowed license feature generally shows 1 minute less than the borrowing end specified at initialization (see figure 3-7).

```
c:\Flexln>lmutil lmborrow vwagkdoe 01-oct-2015
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Setting LM_BORROW=1-oct-2015:vwagkdoe:01-oct-2015

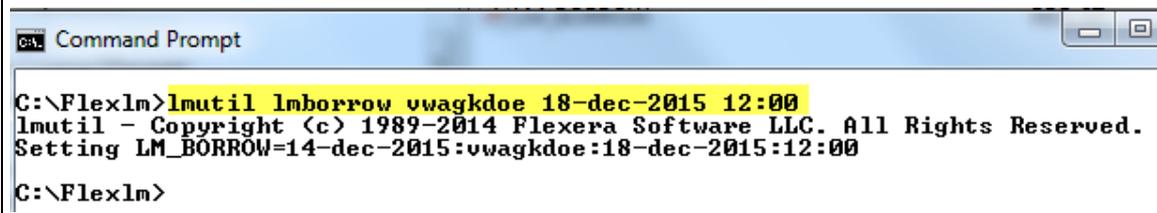
c:\Flexln>lmutil lmborrow -purge -status
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Vendor      Feature                               Expiration
-----
vwagkdoe    VWGRCLITE                             1-Oct-15 23:59
c:\Flexln>
```

Figure 3-7 Example borrowed license feature valid until end of last borrowing day

**Example: Initialization of the Borrowing mode**

VW Vendor Daemon Name=vwagkdoe  
 Return date=18.12.2015 and return time=12:00

*lmutil Imborrow vwagkdoe 18-dec-2015 12:00*

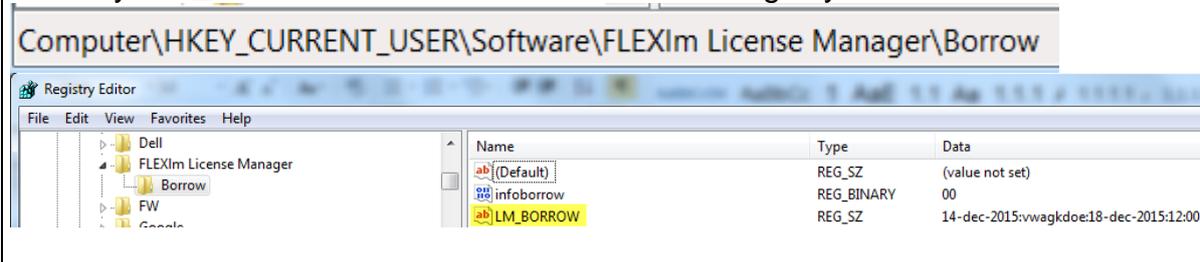


**Explanations:**

First date (14-dec-2015): Borrowing date. On that day, licenses can be borrowed.  
 Daemon Name (vwagkdoe): Only licenses created for this Daemon can be borrowed  
 Second date and time (18-dec-2015:12:00): Return date and time for a borrowed license. Note: If required, borrowed licenses can be returned early.

**Additional information:**

The Key "LM\_BORROW" can then be found in the registry:



Example 3-6 lmutil: Initialization of the borrowing mode

### 3.2.2 Borrowing of licenses

After successful initialization, licenses can be borrowed. For further details, please see [Borrowing of VWGRCLite CAX licenses](#).

### 3.2.3 Determination of the Borrowing status

The borrowed license feature generally shows 1 minute less than the borrowing return time specified at initialization.  
 If no return time was specified, the default time is 23:59.

Syntax command:

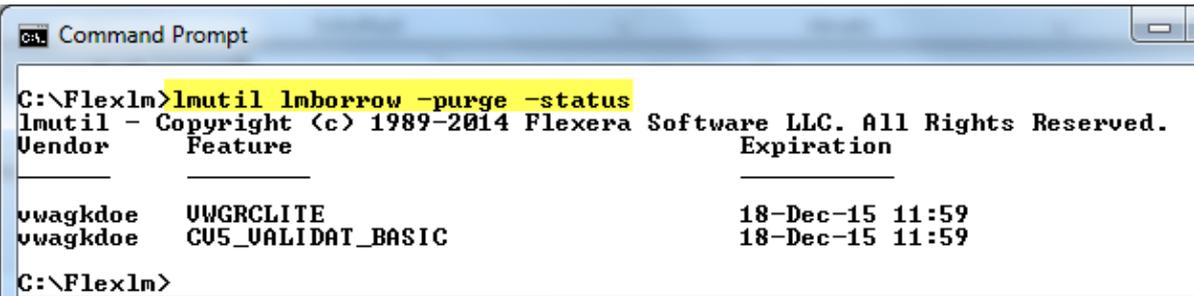
`lmutil lmborrow -purge -status`

**-purge** → deletes expired licenses and effectuates a status update.

**-status** → shows the status of borrowed licenses.

**Example: Determination of the Borrowing status**

Status check of borrowed licenses with:  
*lmutil lmborrow -purge -status*

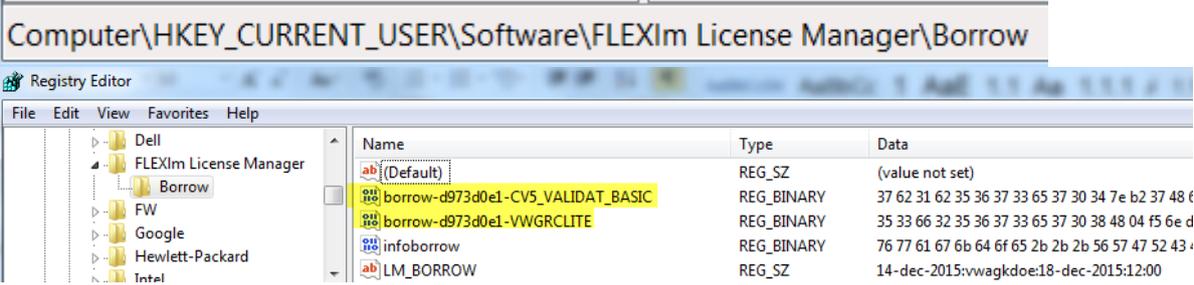


```

C:\Flexlm>lmutil lmborrow -purge -status
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Vendor      Feature                                     Expiration
-----
vwagkdoe    VWGRCLITE                                 18-Dec-15 11:59
vwagkdoe    CV5_VALIDAT_BASIC                         18-Dec-15 11:59
C:\Flexlm>
    
```

The borrowed license features (VWGRCLite and CV5\_VALIDAT\_BASIC) will be returned at the latest on 18.12.2015 at 11:59.

**Additional information:**  
 Information on borrowed licenses are then in the registry:



Name	Type	Data
(Default)	REG_SZ	(value not set)
borrow-d973d0e1-CV5_VALIDAT_BASIC	REG_BINARY	37 62 31 62 35 36 37 33 65 37 30 34 7e b2 37 48 6
borrow-d973d0e1-VWGRCLITE	REG_BINARY	35 33 66 32 35 36 37 33 65 37 30 38 48 04 f5 6e d
infoborrow	REG_BINARY	76 77 61 67 6b 64 6f 65 2b 2b 2b 56 57 47 52 43 4
LM_BORROW	REG_SZ	14-dec-2015:vwagkdoe:18-dec-2015:12:00

Example 3-7 Imutil: Determination of the borrowing status

### 3.2.4 Switching off the Borrowing mode

Licenses can only be borrowed the day the borrowing mode was initialized. By switching off the borrowing mode this time slot can be prematurely terminated.

Syntax command:

`Imutil Imborrow -clear`

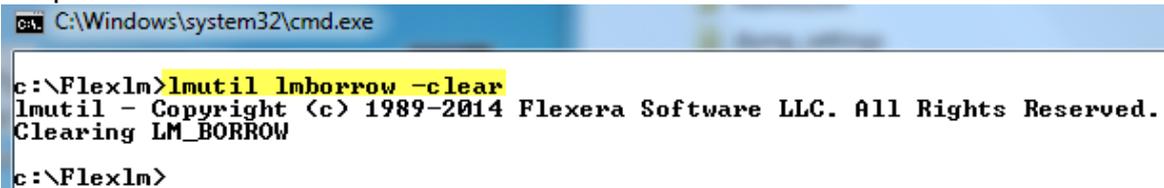
**-clear** →ends the borrowing mode. Further licenses cannot be borrowed. The status of already borrowed licenses remain unchanged.

#### Example: Switching off the Borrowing mode

End borrowing mode with:

`Imutil Imborrow -clear`

Output in the status field:



```

C:\Windows\system32\cmd.exe

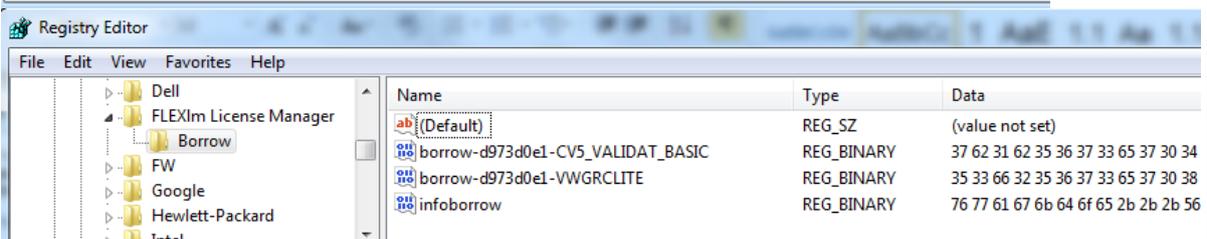
c:\Flexlm>Imutil Imborrow -clear
Imutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Clearing LM_BORROW

c:\Flexlm>
  
```

#### Additional information:

The Key "LM\_BORROW" is no longer found in the registry:

Computer\HKEY\_CURRENT\_USER\Software\FLEXlm License Manager\Borrow



Name	Type	Data
(Default)	REG_SZ	(value not set)
borrow-d973d0e1-CV5_VALIDAT_BASIC	REG_BINARY	37 62 31 62 35 36 37 33 65 37 30 34
borrow-d973d0e1-VWGRCLITE	REG_BINARY	35 33 66 32 35 36 37 33 65 37 30 38
infoborrow	REG_BINARY	76 77 61 67 6b 64 6f 65 2b 2b 56

Example 3-8 Imutil: Switching off the borrowing mode

### 3.2.5 Testing of offline licenses

See chapter "[Test of borrowed licenses](#)".

### 3.2.6 Early return of a license

**Note:** The client computer must be connected to the network and the FlexNet license server must be running.

Syntax command:

lmutil lmborrow -return [-vendor name] feature

**-return** → early return of a borrowed license

**[-vendor name]** → Either "all" or the specific Vendor name of the license feature. The name for VWGRCLite CAx license features is "vwagkdoe".

**feature** → Name of the license feature to be returned. The spelling of the feature can be seen in the license file. The name is case-sensitive!

**Example: Early return of a license**

Return command for the borrowed VWGRCLite license feature:

*lmutil lmborrow -return -vendor vwagkdoe VWGRCLITE*

```

C:\Flexlm>lmutil lmborrow -purge -status
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Vendor      Feature
-----
vwagkdoe    VWGRCLITE                18-Dec-15 11:59
vwagkdoe    CV5_VALIDAT_BASIC        18-Dec-15 11:59

C:\Flexlm>lmutil lmborrow -return -vendor vwagkdoe VWGRCLITE
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Feature "VWGRCLITE" returned successfully.

C:\Flexlm>lmutil lmborrow -purge -status
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Vendor      Feature
-----
vwagkdoe    CV5_VALIDAT_BASIC        18-Dec-15 11:59

C:\Flexlm>

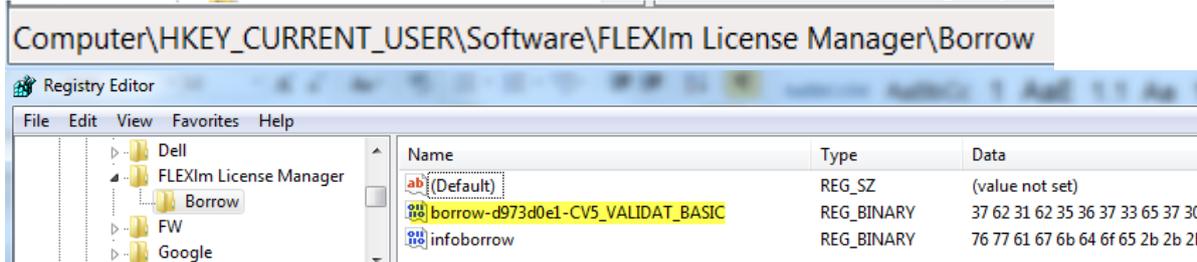
```

Explanations:

The license feature "VWGRCLITE" was returned and is no longer borrowed. The license feature "CV5\_VALIDAT\_BASIC" is still borrowed (regular return date / time: 18.12.2015 11:59)

**Additional information:**

Only the information on "CV5\_VALIDAT\_BASIC" is found in the registry



Example 3-9 lmutil: Early return of a license

### 3.2.7 Return of the license after expiration of the regular Borrowing period

The license is returned automatically at the end of the regular borrowing period.

After expiration of the regular borrowing period, the license cannot be used any more by the client. The server returns the expired license to the license pool. The client does not have to be connected to the server.

#### Example: Return of the license after expiration of the regular Borrowing period

The license is returned automatically at the end of the regular borrowing period. After expiration of the regular borrowing period, the license cannot be used any more by the client. The server returns the expired license to the license pool. The client does not have to be connected to the server.

#### Borrowing status check for license features expired regularly:

```
lmutil lmborrow -purge -status
```

Status display after expiration of the regular borrowing period:

```

C:\Windows\system32\cmd.exe

c:\Flexln>lmutil lmborrow -purge -status
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Vendor      Feature                               Expiration
-----
vwagkdoe    CU5_VALIDAT_BASIC                     1-Oct-15 14:29

c:\Flexln>date /t
01.10.2015

c:\Flexln>time /t
14:30

c:\Flexln>lmutil lmborrow -purge -status
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
c:\Flexln>

```

Example 3-10 lmutil: Return of the license after expiration of the regular borrowing period

### 3.3 FlexNet Variable LM\_BORROW

As an alternative to initialization of the borrowing mode with [LMTOOLS](#) oder [lmutil](#), the FlexNet system variable "LM\_BORROW" can be used.

Licenses can only be borrowed the day the defined "borrowing date" of LM\_BORROW matches the current date.

In this case, switching off the borrowing mode is done by deleting the variable LM\_BORROW.

**Attention:** The variable LM\_BORROW is dominant. That means as long as the variable is set, any initialization made with LMTOOLS or lmutil will be ignored! This applies even if the value of LM\_BORROW is outdated. "Switching of the borrowing mode" carried out with [LMTOOLS](#) oder [lmutil](#) will not remove the LM\_BORROW variable.

#### 3.3.1 Setting LM\_BORROW

The variable LM\_BORROW can be set as system variable or as user variable. The setting of system variables requires administration rights. User variables can be set by the users.

Setting FlexNet "LM\_BORROW" as system variable can be done via Windows Control Panel.

*Example Windows 7 computer with German locale:*

*Start \ Control Panel*

*→ System and Security*

*→→ System*

*→→→ Advanced System Settings*

*→→→→ Environment Variables*

*→→→→enter LM\_BORROW manually under "system variables"*

Setting FlexNet "LM\_BORROW" as user variable can be done via Windows Control Panel.

*Example Windows 7 computer with German locale:*

*Start \ Control Panel*

*→ System and Security*

*→→ System*

*→→→ Advanced System Settings*

*→→→→ Environment Variables*

*→→→→→ enter LM\_BORROW manually under "user variables for <userid>"*

- **Name of the variable:** LM\_BORROW
- **Value of the variables:** Borrowing date: Vendor:Return date[:return time]

e.g.: 05-oct-2015:vwagkdoe:15-oct-2015

- Borrowing date: if it matches the current date, licenses can be borrowed that day!  
Format dd-mmm-yyyy  
the month abbreviation must be entered as three digits in English, e.g.: jan, feb, mar, apr, mai, jun, jul, aug, sep, oct, nov, dec,
- Vendor: Name of the license daemons (e.g: vwagkdoe) or for all (all)
- Return date: → dd-mmm-yyyy. This value may not exceed the license validity indicated in the license file and the maximum borrowing duration in "[BORROW](#)". Further restrictions may exist when using an [opt-file](#)  
Note on "mmm":English three-digit months (jan, feb, mar, apr, mai, jun, jul, aug, sep, oct, nov, dec)
- Return time (optional) → If not specified, the end of the last borrowing day is valid (24:00).

#### **Example Setting LM\_BORROW as system variable**

*Example Windows 7 computer with English locale:*

*Start \ Control Panel*

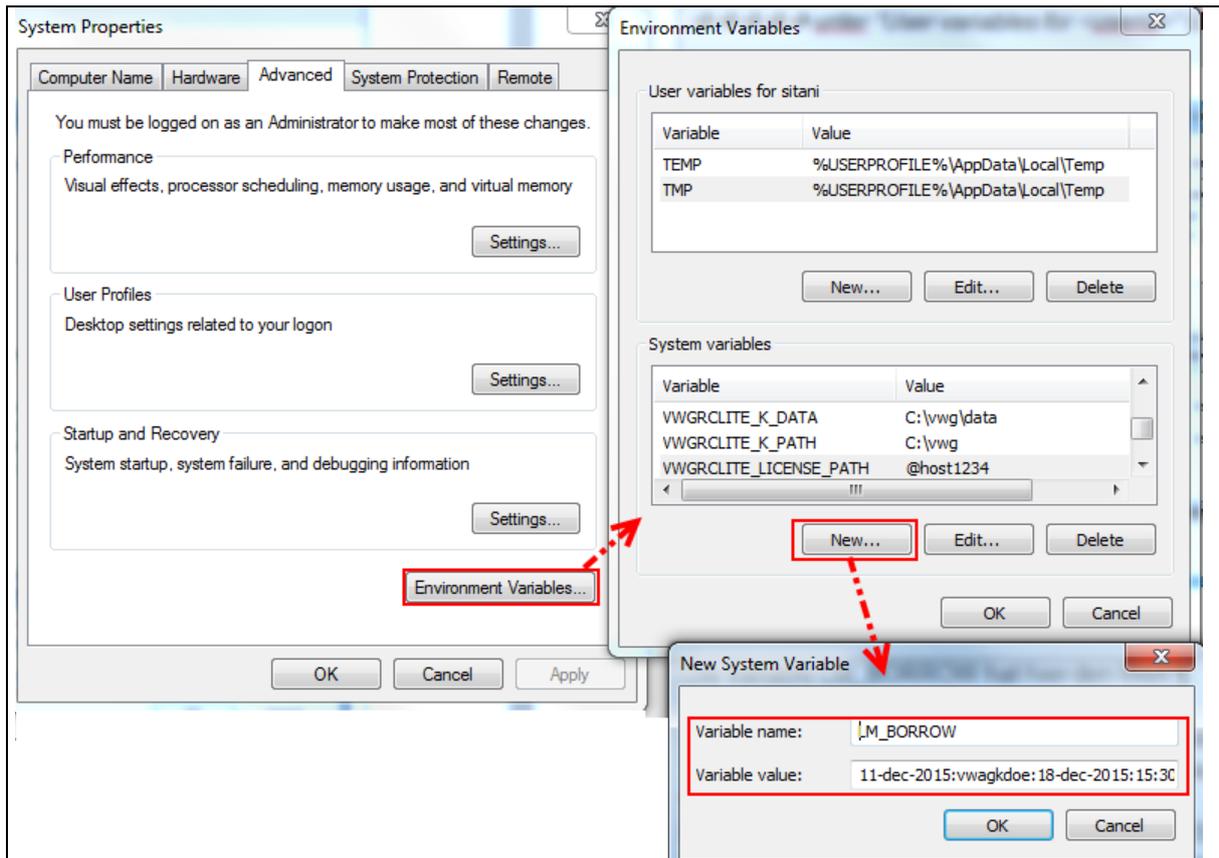
*→System and Security*

*→→System*

*→→→ Advanced System Settings*

*→→→→ Environment Variables*

*→→→→→ enter LM\_BORROW manually under "system variables"*



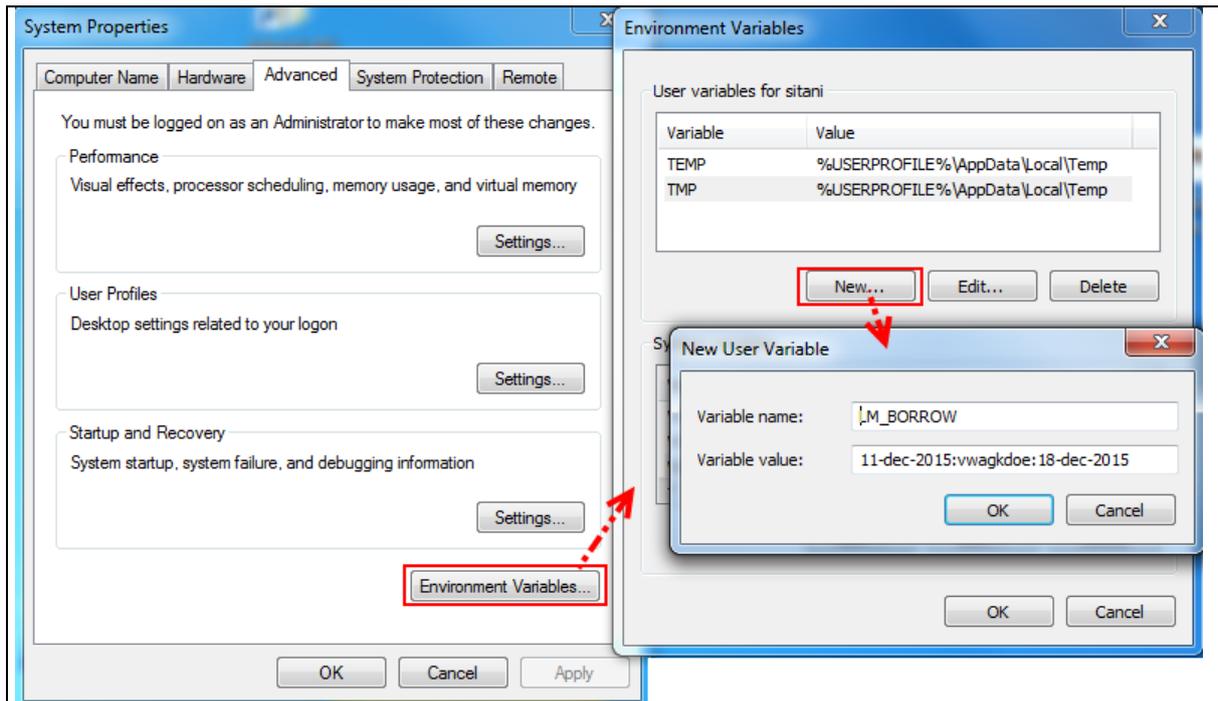
Value of the variable LM\_BORROW:  
 11-dec-2015:vwagkdoe:18-dec-2015:15:30  
 Meaning: On 11.12.2015 license features for vendor daemon "vwagkdoe" can be borrowed. Maximum return date/time here:  
 18.12.2015 15:30.

**Note:** Save all changes by clicking the button "OK" in each individual open dialog. Otherwise changes will not be saved.

Example 3-11 Setting LM\_BORROW as system variable

**Example Setting LM\_BORROW as user variable**

*Example Windows 7 computer with English locale:  
 Start \ Control Panel  
 → System and Security  
 →→ System  
 →→→ Advanced System Settings  
 →→→→ Environment Variables  
 →→→→→ enter LM\_BORROW manually under "user variables for <userid>"*



Value of the variable LM\_BORROW:

11-dec-2015:vwagkdoe:18-dec-2015

Meaning: As of 11.12.2015 license features for vendor daemon "vwagkdoe" can be borrowed until max. 18.12.2015 24:00.

**Note:** Save all changes by clicking the button "OK" in each individual open dialog. Otherwise changes will not be saved.

Example 3-12 Setting LM\_BORROW as user variable

### 3.3.2 Deleting the variable LM\_BORROW

The deletion of LM\_BORROW ends the borrowing mode. If the variable persists after the end of the regular borrowing period, it prevents new initializations made with LMTTOOLS or lmutil from coming into effect!

The FlexNet system variable "LM\_BORROW" can be deleted via Windows Control Panel.

*Example Windows 7 computer with German locale:*

*Start \ Control Panel*

*→ System and Security*

*→→ System*

*→→→ Advanced System Settings*

*→→→→ Environment Variables*

→→→→→ delete LM\_BORROW under "system variables"

The FlexNet user variable "LM\_BORROW" can be deleted via Windows Control Panel.

*Example Windows 7 computer with German locale:*

*Start \ Control Panel*

*→ System and Security*

*→→ System*

*→→→ Advanced System Settings*

*→→→→ Environment Variables*

*→→→→→ delete LM\_BORROW under "user variables for <userid>"*

Figure 3-8 shows an example of how to delete user variable LM\_BORROW.

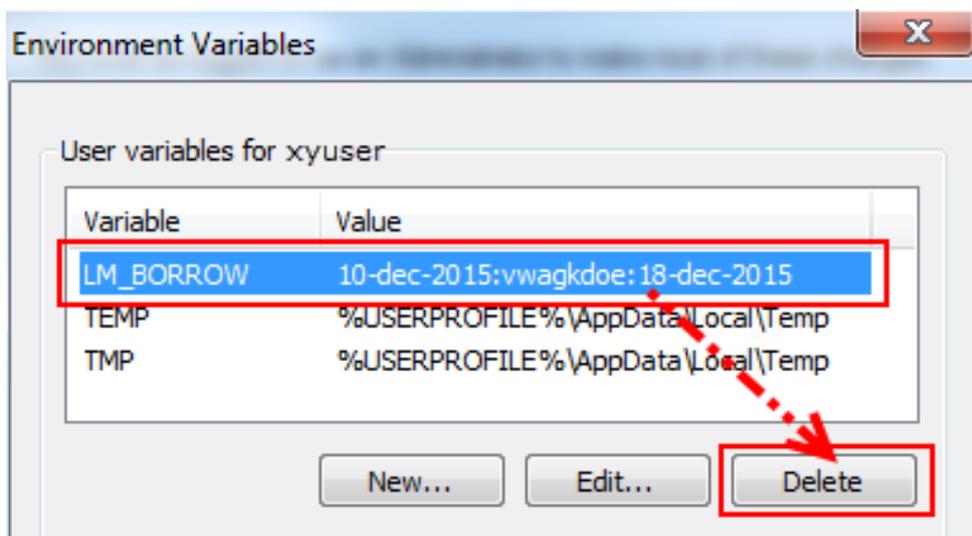


Figure 3-8 Example deletion of FlexNet user variable LM\_BORROW

**Note:** Save all changes by clicking the button "OK" in each individual open dialog. Otherwise changes will not be saved.

### 3.4 Borrowing of VWGRCLite CAx licenses

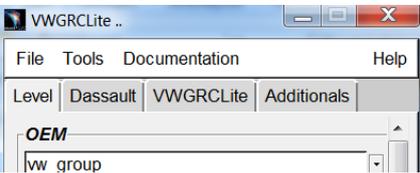
After initialization of the borrowing mode (with [LMTOOLS](#), [lmutil](#) or the variable [LM\\_BORROW](#)), VWGRCLite CAx licenses can be borrowed. Therefore, each application whose license is to be borrowed has to be called once (see example 3-13).

Use the application you want to borrow while you are in the network.

Borrowing is only possible if a [corresponding license](#) is available on the server.

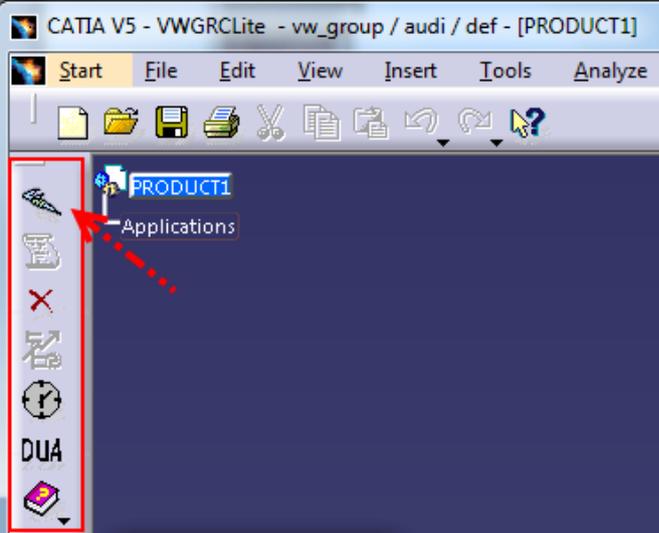
**Example Borrowing of VWGRCLite CAx licenses (VWGRCLite, Validat Basis)**

Start VWGRCLite GUI



After the start, the license is borrowed and not checked out from the server any more.

Start CATIA. Then call a function of the Validat Toolbar (here:  "Validat Check")



If the call of the function is successful, the Validat Basic License is borrowed and not checked out from the server any more.

Reminder: Which Validat license (Basis/Prof) is checked out may depend on your settings in Tools/Options/Infrastructure/Validat/Licensing. In this example, only the Validat Basic License is preset.

Example 3-13 Borrowing of VWGRCLite CAx licenses

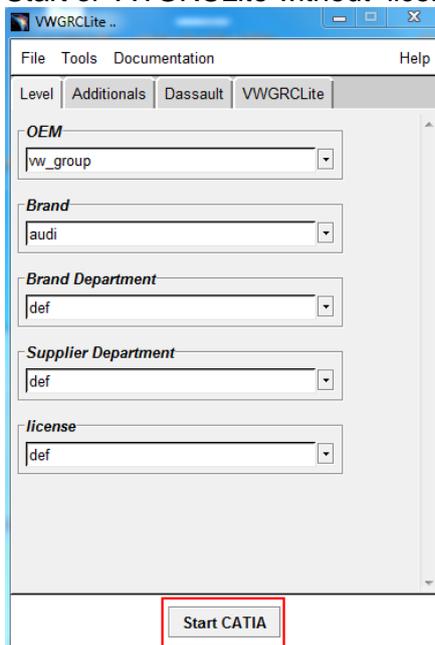
### 3.5 Testing the borrowed license

Disconnect the client computer from the network (no access to the FlexNet license server any more). Call of the applications for which licenses were borrowed (see example 3-14).

**Note:** The CATIA licenses must be suitable for the use without network (e.g. Nodelocked or borrowed licenses). The borrowing of CATIA licenses or the use of CATIA Nodelocked licenses are not part of this document.

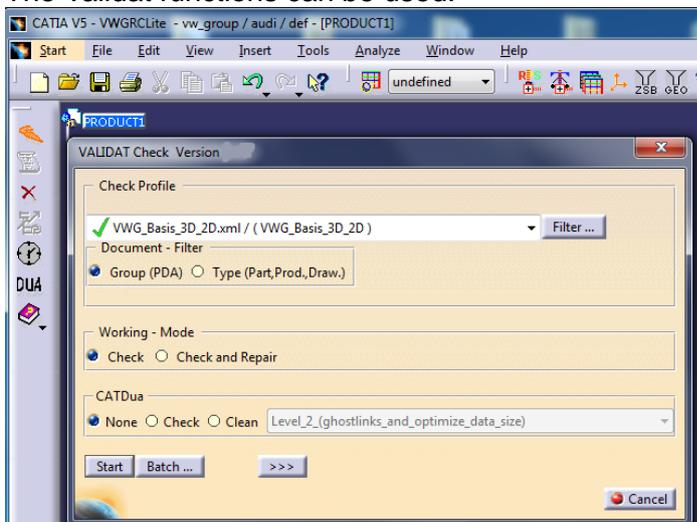
#### Example Testing the borrowed licenses VWGRCLITE, CV5\_VALIDAT\_BASIC

Start of VWGRCLite without license error message.



“Start CATIA“

The Validat functions can be used.

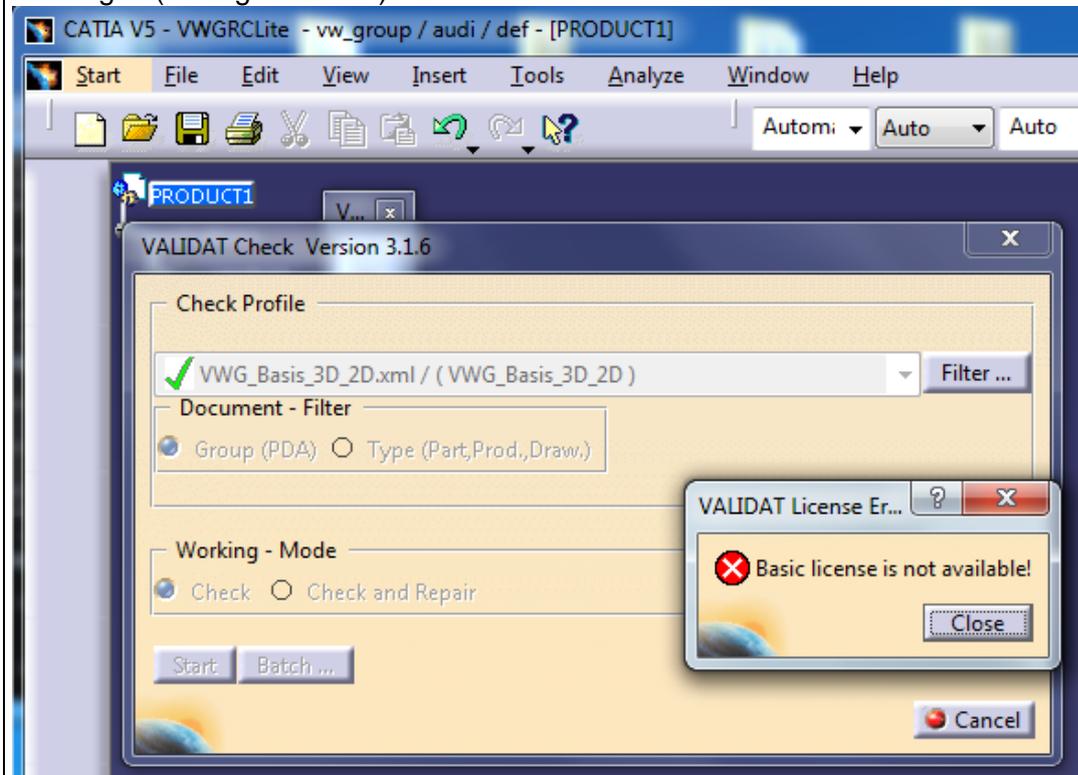


**Additional information:**

As the computer is offline, only the borrowed licenses can be used until the end of the bor-

rowing period.

The use of other VWGRCLite CAx applications without offline license will lead to a license error message. The borrowing duration must be observed. No prior warning will be given at expiration. Once the license has expired, calls of the application will lead to license error messages (see figure below).



Example 3-14 Testing of borrowed licenses (VWGRCLite, Validat Basis)

### 3.6 A small Borrowing scenario from user's point of view

The administrator must have fulfilled the qualifications for the user and his machine as described in [chapter 2](#). The user was informed about "Borrowing" and the maximum borrowing duration. In the following, a possible small Borrowing procedure from user's perspective:

- For initialization, set the [Variable LM BORROW as user variable](#), see Example 3-12 setting LM\_BORROW as user variable
- [Borrowing of VWGRCLite CAX licenses](#)
- [Testing the borrowed licenses offline](#)
- if test ok, [delete variable LM\\_BORROW](#), see Figure 3-8 Example deletion of FlexNet user variable LM\_BORROW

For the [check of the borrowing status](#) or the [early return](#), the FlexNet utility "lmutil" can be used in the command line. If this not possible without problems, the user should ask the administrator for support.

## 4 Controlling the Borrowing options by an opt-file (Administrator)

Borrowing licenses can be controlled more detailed by using an opt-file which contains the required FlexNet borrowing options. The following can be controlled, for instance:

- Limit borrowing to a certain number of licenses (BORROW\_LOWWATER)
- Set maximum borrowing duration (MAX\_BORROW\_HOURS)
- Permit / prohibit users / groups to borrow license features (INCLUDE\_BORROW / EXCLUDE\_BORROW)

### 4.1 Defining an opt-File

There are two ways to define an opt-file. It is recommended to choose one definition type.

1) Creation of an opt-file with the name of the Vendor Daemon in the license directory. In case of VW Vendor Daemon vwagkdoe it would be vwagkdoe.opt (see figure).



Figure 4-1 Example opt-file (vwagkdoe.opt) in the license directory

2) The Vendor Daemon line in the license file is amended by the indication options=<path>\<opt-filename>

E.g.:

```
DAEMON vwagkdoe options=C:\FLEXNET\vw.opt
```

## 4.2 Configuration of Borrowng options

In the following table you will find the special borrowing options for the opt-file including examples.

For further details, please see the FlexNet Original Product Documentation.

Option / Examples	Description
<p>BORROW_LOWWATER</p> <p>Example:</p> <p>BORROW_LOWWATER VWGRCLITE 100</p>	<p>Specifies how many licenses of a license feature <b>cannot</b> be borrowed.</p> <p>Ensures that 100 VWGRCLITE licenses cannot be borrowed.</p> <p>Note: In general, the number of VWGRCLITE floating licenses is 9999.</p>
<p>MAX_BORROW_HOURS</p> <p>Example:</p> <p>MAX_BORROW_HOURS VWGRCLITE 720</p>	<p>Besides the general license validity, the maximum borrowing period for the feature is defined in the license file (e.g. BORROW=9528). If required, the maximum borrowing period can be further <b>restricted</b> using the option MAX_BORROW_HOURS</p> <p>For the feature VWGRCLITE, the maximum borrowing period is set to 720 hours (720/24 → equivalent to 30 days).</p>
<p>GROUP</p> <p>Example:</p> <p>GROUP cad joe tom fred</p>	<p>A list of users can be assigned to a group.</p> <p>joe, tom and fred are members of the group „cad“</p>

Option / Examples	Description
<p>INCLUDE_BORROW</p> <p>Examples:</p> <p>INCLUDE_BORROW VWGRCLITE USER fred</p> <p>or:</p> <p>GROUP cad joe tom fred INCLUDE_BORROW VWGRCLITE GROUP cad</p>	<p>Defines who may borrow which license feature.</p> <p>Only user „fred“ is allowed to borrow the VWGRCLITE license.</p> <p>Only members of the group „cad“ are allowed to borrow VWGRCLITE licenses.</p> <p>Note: User groups and names are case-sensitive and must not contain any blanks.</p>
<p>EXCLUDE_BORROW</p> <p>Examples:</p> <p>EXCLUDE_BORROW VWGRCLITE USER joe</p> <p>or:</p> <p>GROUP cad joe tom fred EXCLUDE_BORROW VWGRCLITE GROUP cad</p>	<p>Defines who may not borrow which license feature.</p> <p>Only user „joe“ may <b>not</b> borrow VWGRCLITE licenses.</p> <p>Only members of the group „cad“ may <b>not</b> borrow VWGRCLITE licenses.</p> <p>Note: It is recommended to use either INCLUDE_BORROW or EXCLUDE_BORROW for one license feature.</p>

Table 4-1 Borrow options

### 4.3 Activating the opt-file

To make the contents of the opt-file operational, at least the license file has to be re-read. Alternatively, the FlexNet server (Imgrd) can be restarted.

The procedure depends on your FlexNet server configuration and your access permissions.

#### Example for "Imutil Imreread"

Example command line with permission to use "Imutil Imreread":

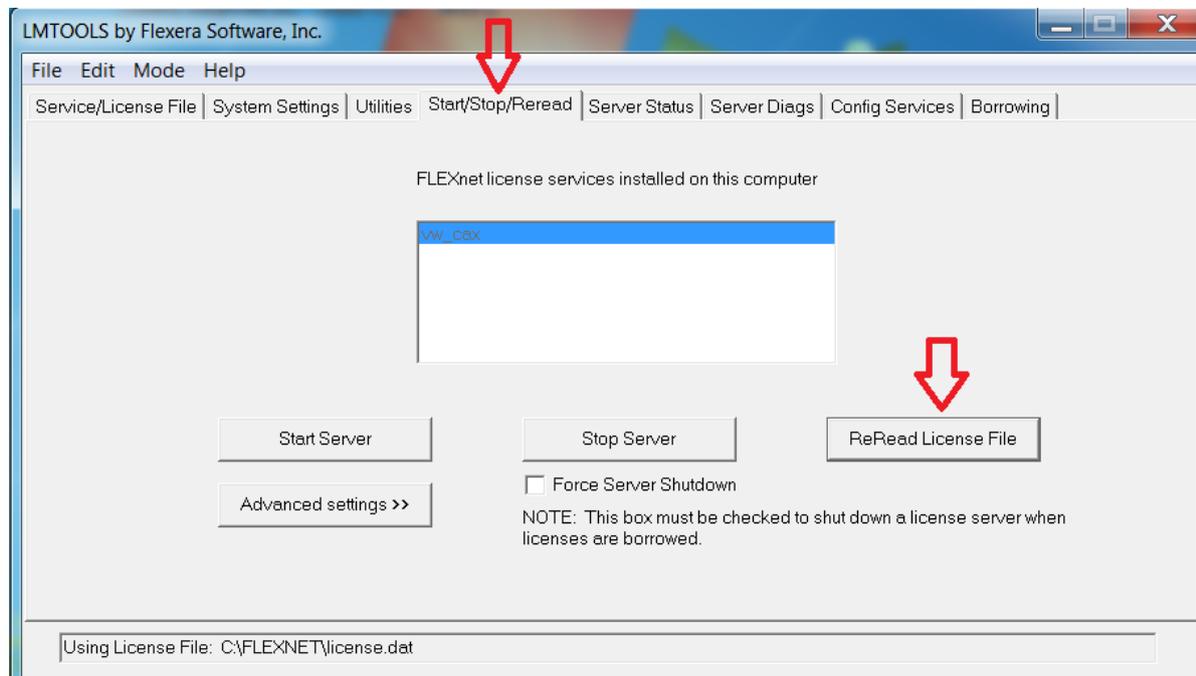
```
Imutil Imreread -c C:\License\license.dat -vendor vwagkdoe
```

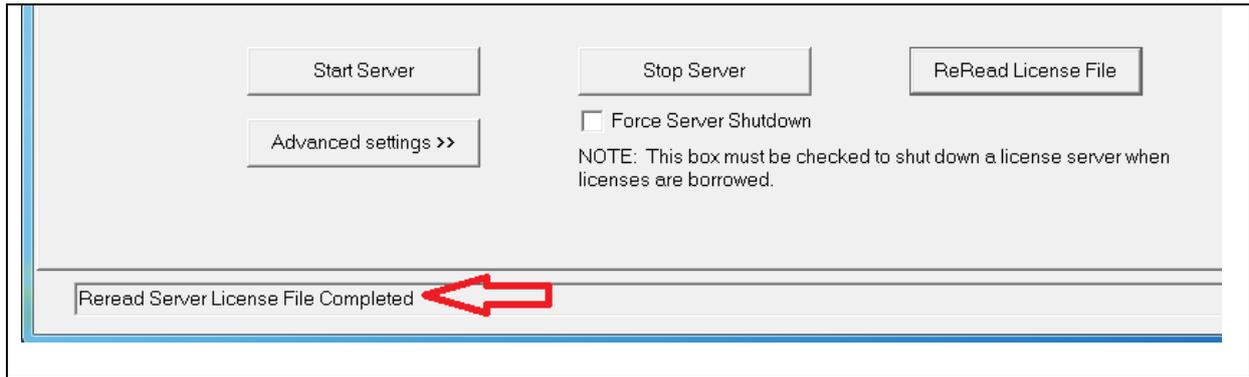
-c <path with license file>  
uses the indicated license file

-vendor <Vendor DaemonName>  
Only vendor Daemon (here vwagkdoe), reads the license file and its opt-file. If necessary, Imgrd will restart the Daemon.

#### LMTOOLS-Example for "ReRead License File"

Example using Imtools „ReRead License File“:  
Run Imtools.exe with the necessary permission. Go to register „start/stop/reread“. Should you have configured several FlexNet services make sure that the VW service (here vw\_cax) is activated. Run „ReRead License File“. After completion the success message has to appear in the status line („ReRead Server License File Completed“).





Example 4-1 Reread license file (with Imutli or LMTTOOLS)

## 5 Error screens

For error screens not listed here, please see the FlexNet Original Product Documentation or the FlexNet manufacturer's website.

### 5.1 Message: "Cannot borrow that long"

Error message at the start of VWGRCLite (highlighted in yellow in figure 5-1) or VWGRCLite GUI can be started, but an error message appears at the start of an VWGRCLite application (e.g. NTool in figure 5-2)

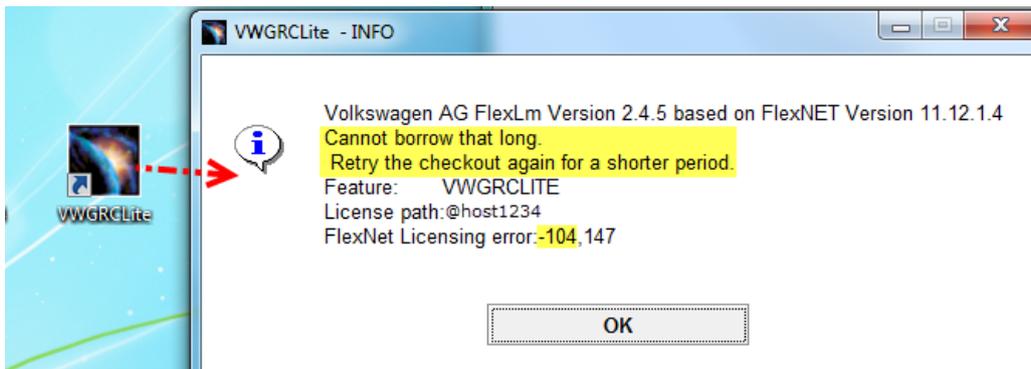


Figure 5-1 VWGRCLITE Message "Cannot borrow that long"

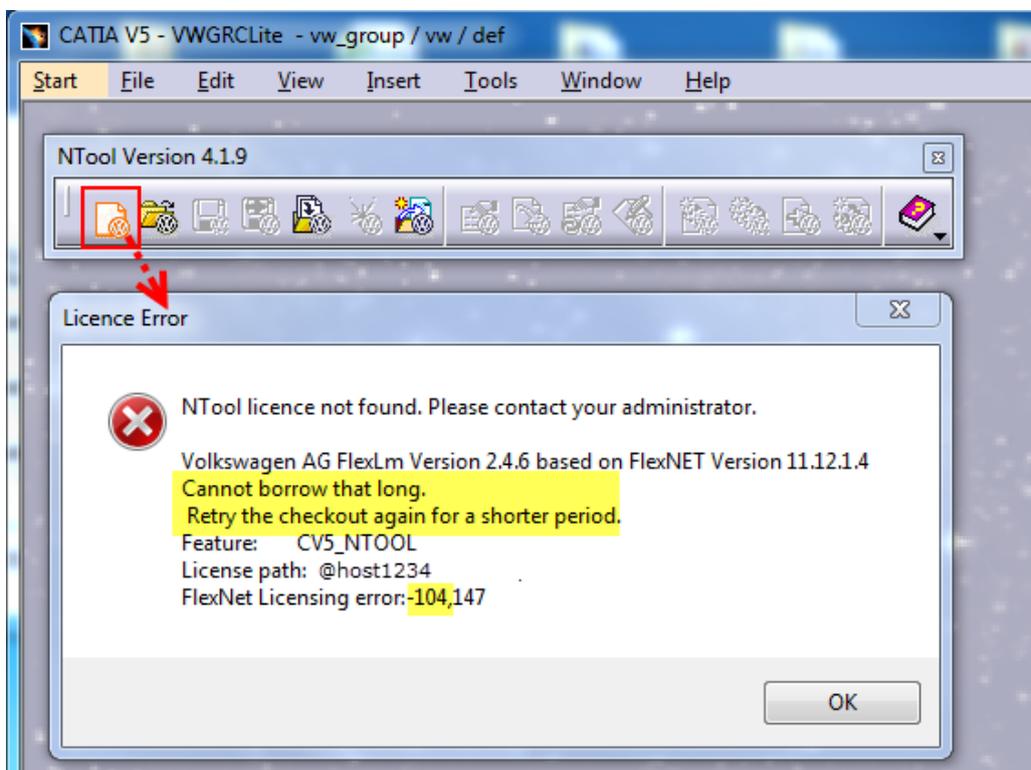


Figure 5-2 Example NTool message: "Cannot borrow that long"

The return time specified (LM\_BORROW: [Variable](#) or defined via [lmtools](#) \ [lmutil](#)) exceeds the maximum borrowing duration and must be reduced accordingly.

The Administrator has to inform the users about the maximum borrowing duration.

Possible causes:

The return date specified lies beyond the license validity date.

The maximum borrowing period as defined in the license file (see table 1-1) was exceeded.

Attention: The borrowing period may have been further restricted via an [opt-file](#) (MAX\_BORROW\_HOURS, for details, see table 4-1).

## 5.2 Despite Initialization (LMTOOLS, Imutil), no license is borrowed

If despite successful initialization with Imtools or Imutil licenses cannot be borrowed it has to be determined whether the FlexNet variable "LM\_BORROW" is set.

The variable LM\_BORROW is dominant. That means as long as the variable is set, any initialization made with LMTOOLS or Imutil will be ignored! This applies even if the value of LM\_BORROW is outdated (see example in figure 5-3).

"Switching of the borrowing mode" carried out with LMTOOLS oder Imutil will not remove the LM\_BORROW variable. Solution: see [Deleting the variable LM\\_BORROW](#).

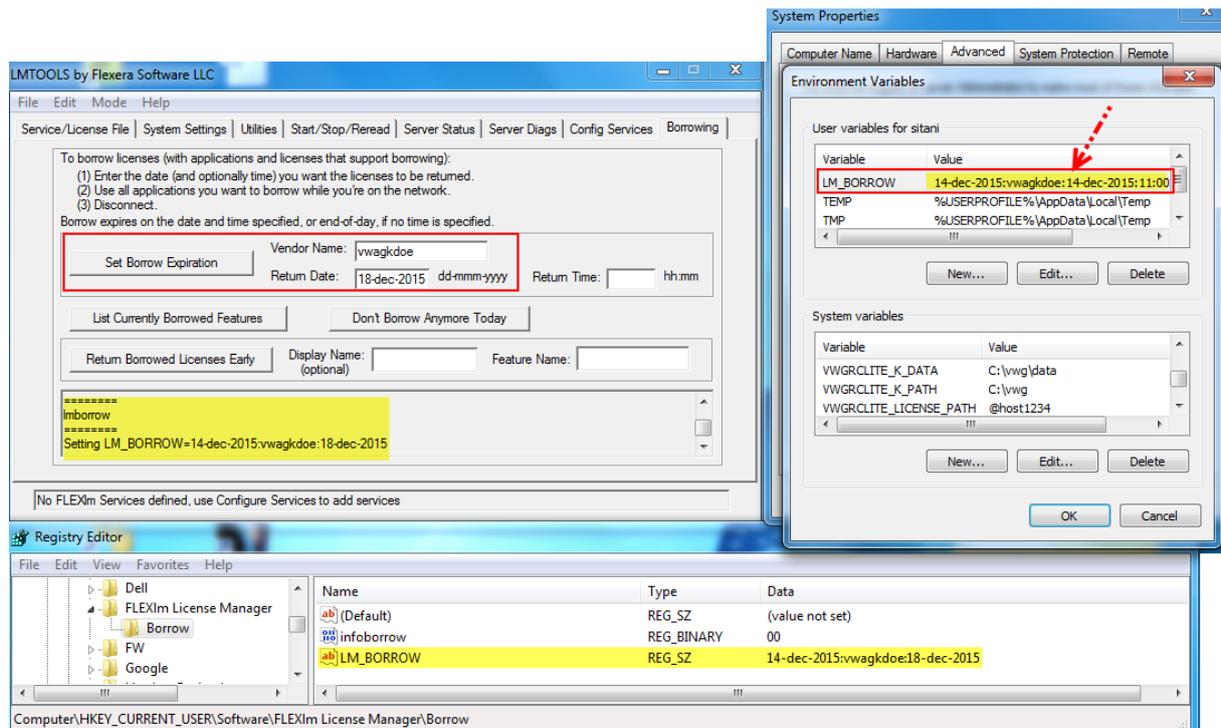


Figure 5-3 Example conflict variable LM\_BORROW with Imtools initialization

### 5.3 LMTOOLS\lmutil: "Cannot find license file"

Error message at early return of borrowed licenses "Cannot find license file"

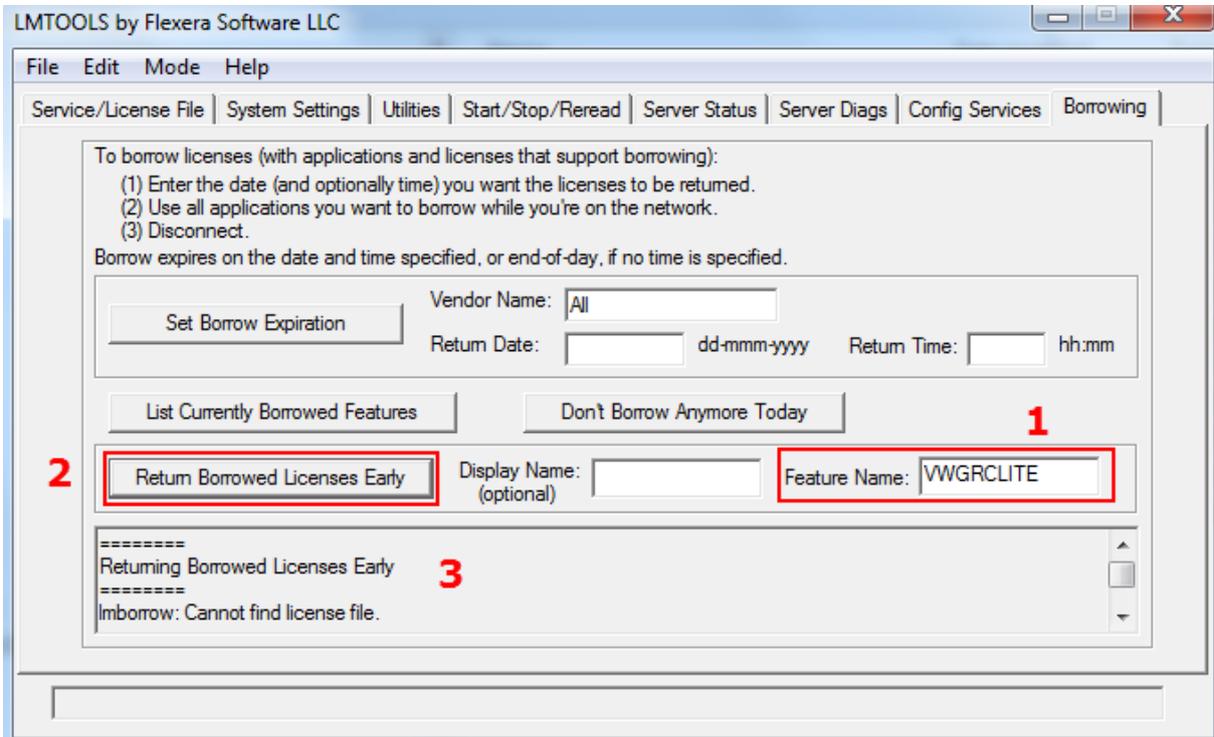


Figure 5-4 Example LMTOOLS error message "Cannot find license file" at early license return

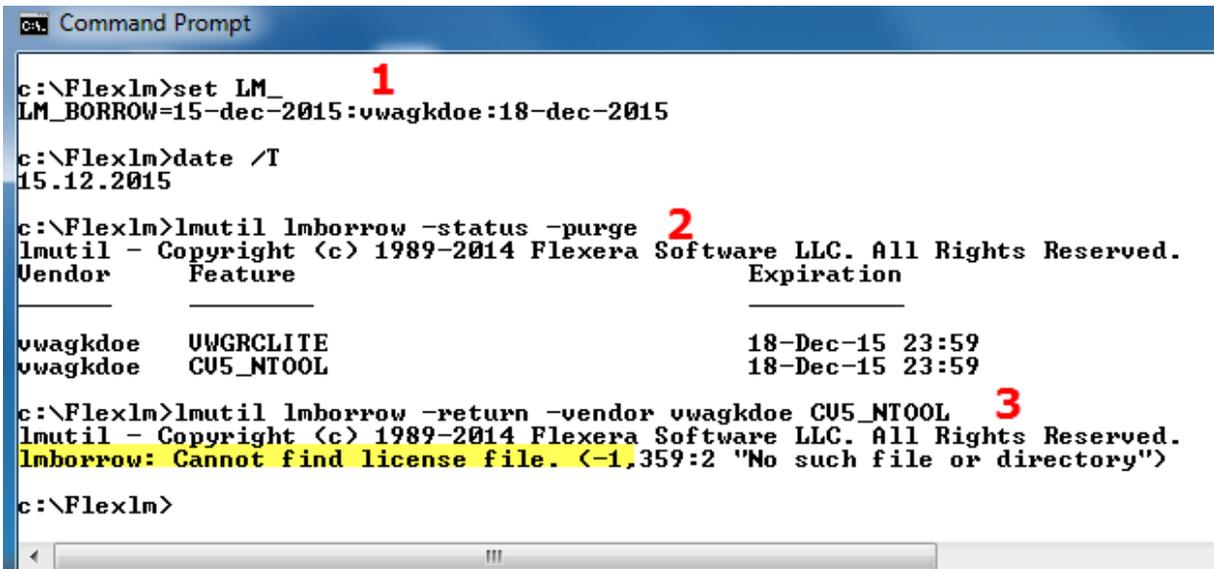


Figure 5-5 Example lmutil error message "Cannot find license file" at early license return

Possible cause:

[LM\\_LICENSE\\_FILE](#) not set or not set correctly.

## 5.4 LMTOOLS\lmutil: "Error: ... not currently borrowed"

When trying to return a license feature early, the error ".. not currently borrowed" appears. Examples see figure 5-6 and figure 5-7.

The license feature is not currently borrowed and can therefore not be returned early.

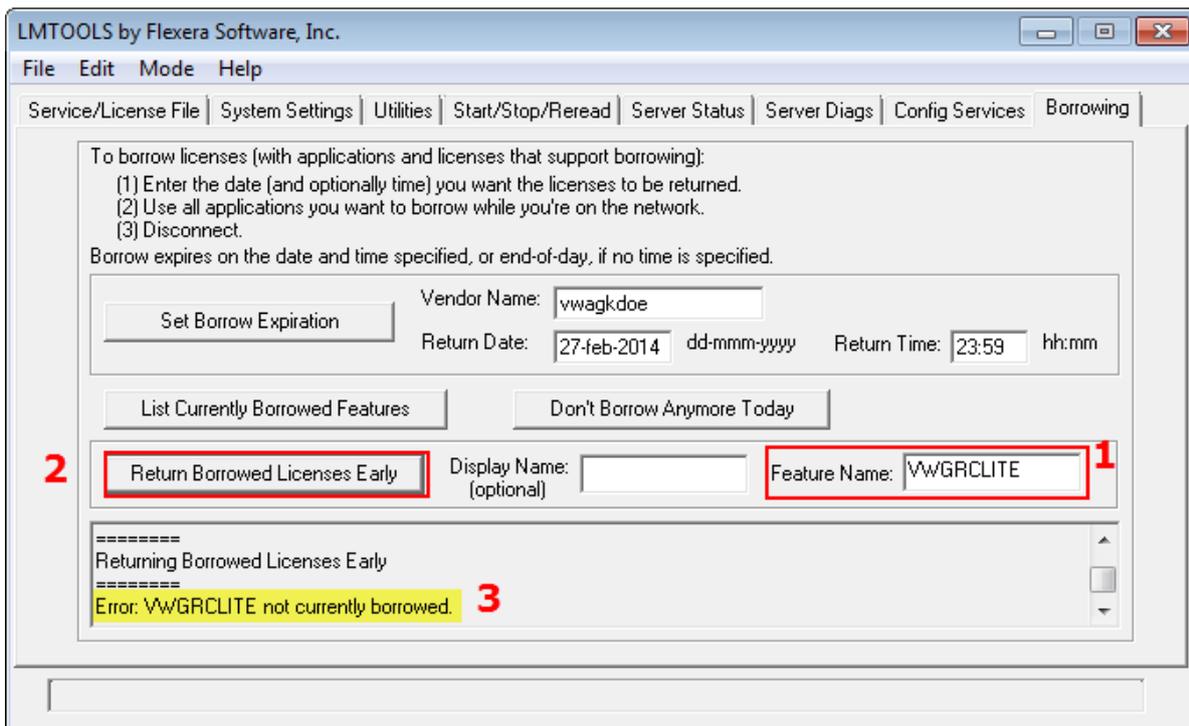


Figure 5-6 Example LMTOOLS error message ".. not currently borrowed."

```

c:\Flexlm>lmutil lmborrow -purge -status 1
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Vendor      Feature
-----
vwagkdoe    CU5_NT00L                18-Dec-15 23:59
c:\Flexlm>lmutil lmborrow -vendor vwagkdoe -return VWGRCLITE 2
lmutil - Copyright (c) 1989-2014 Flexera Software LLC. All Rights Reserved.
Error: VWGRCLITE not currently borrowed.
c:\Flexlm>

```

Figure 5-7 Example lmutil error message ".. not currently borrowed."

## 5.5 Message: "License server machine is down or not responding"

The message License server machine is down or not responding appears:

- if the die client machine is offline and its borrowed license has expired (see figure 5-8 )
- if the FlexNet license server is no longer available or no longer active
- if in variable "VWGRCLITE\_LICENSE\_PATH" an incorrect FlexNet license server was defined

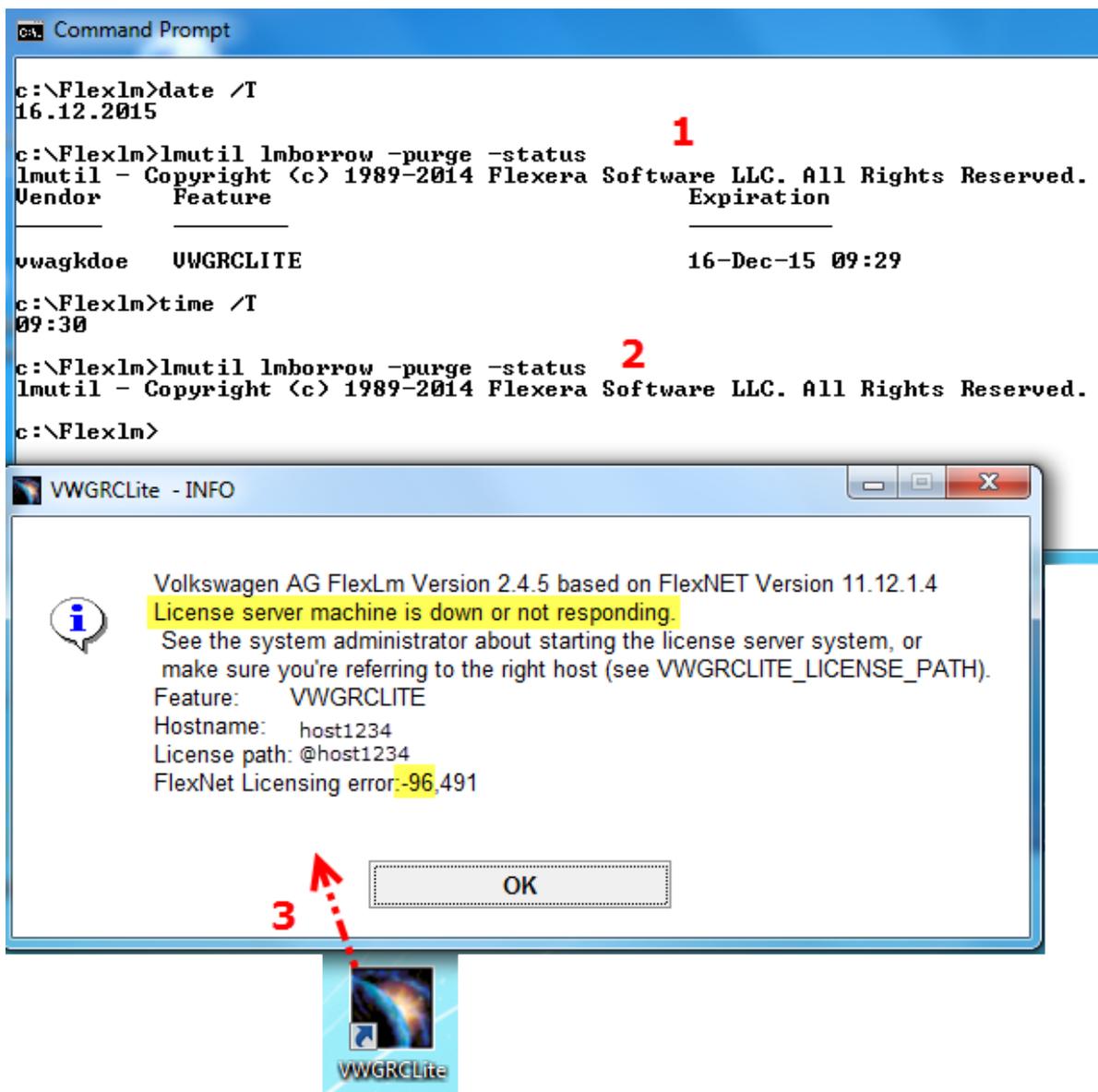


Figure 5-8 Example scenario for error message "License server machine is down or not responding"