



Lenovo XCC Logger Utility User Guide for Windows



Note: Before using this information, read the general information in [“Notices”](#) on page xix.

First Edition (Oct 2022)

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Chapter 1. Introduction

This guide will provide instruction about how to use the features available in the Lenovo XCC Logger Utility.

The Lenovo XCC Logger Utility provides a set of tools for getting/saving events from the XCC of Think System. With the help of Lenovo XCC Logger Utility, administrators can get the hardware events that generated by local XCC and record these events to the Event Log/Syslog of local Windows/Linux operating system in a flexible way.

This guide is for the Windows version of Lenovo XCC Logger Utility.

Chapter 2. System Requirements

To use the Windows version of Lenovo XCC Logger Utility, the system must meet all the following requirements:

1. Operating system is one of the following:
 - Windows Server 2019
 - Windows Server 2022
2. IPMI driver installed and enabled on the operating system

Chapter 3. Installation

This chapter shows how to install Lenovo XCC Logger Utility on the operating system

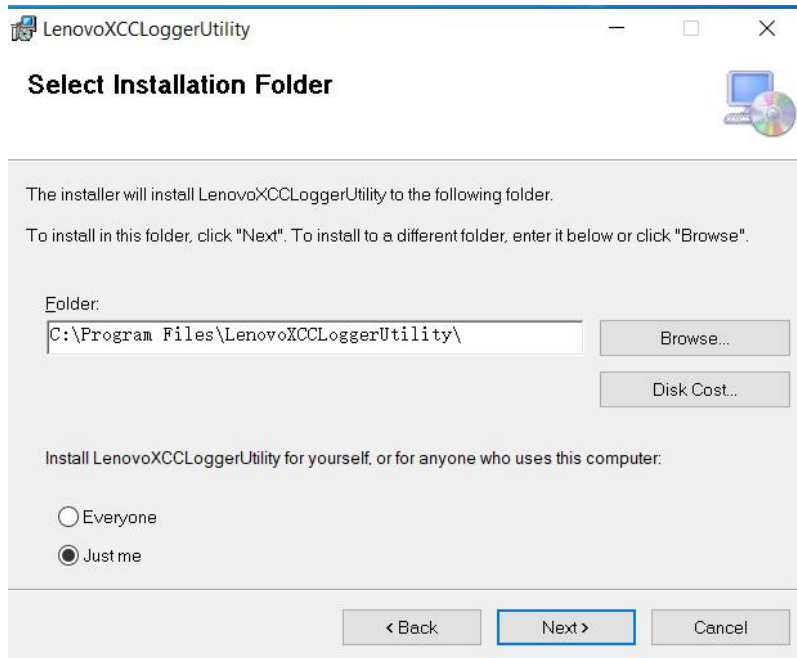
During the installation, Lenovo XCC Logger Utility will enable the Ethernet-over-USB feature of XCC and get the IP address. A new XCC account with read-only privilege will also be created in XCC for getting XCC events.

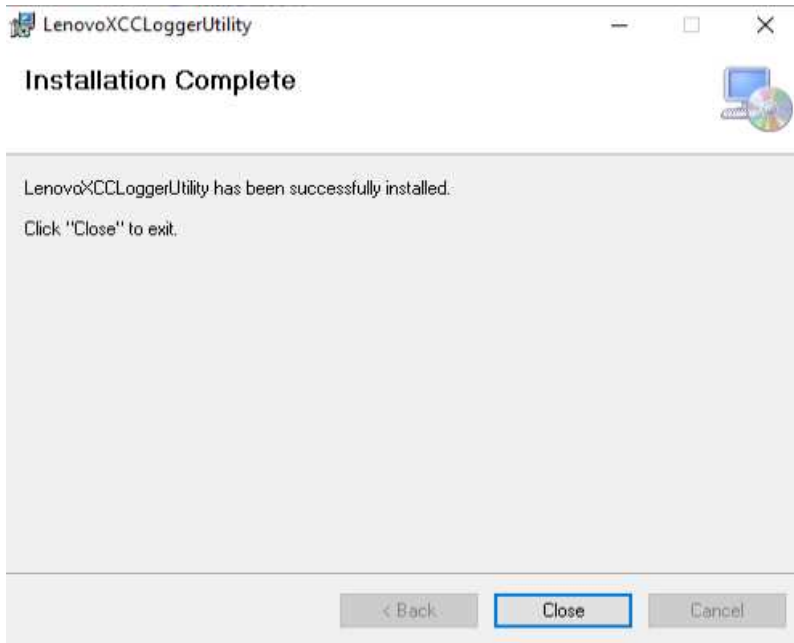
The credential of the new account will be saved encrypted to Windows Credential Manager.

A new "Event Source" of Windows Event Log - Application category will be registered in the system registry for reporting Windows Event.

Note: Lenovo XCC Logger Utility will prepare the environment by accessing the local XCC via KCS interface. Therefore, the KCS interface of XCC need to be enabled.

1. Login as administrator
2. Download xcclogger-*.msi package from Lenovo support
3. Double-click the msi package to install





Manually initialize

This chapter shows how to manually initialize Lenovo XCC Logger Utility after the package has been installed on the operating system according to the instruction above.

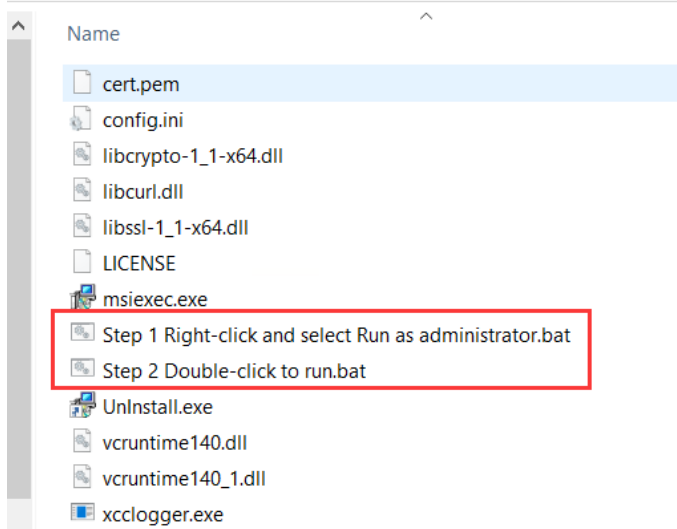
Note: If the user does not encounter any problem during installation and does not want to manually alter the running environment of Lenovo XCC Logger Utility, it is unnecessary to perform a manually initialize.

1. In explorer, locate the installation folder of Lenovo XCC Logger Utility

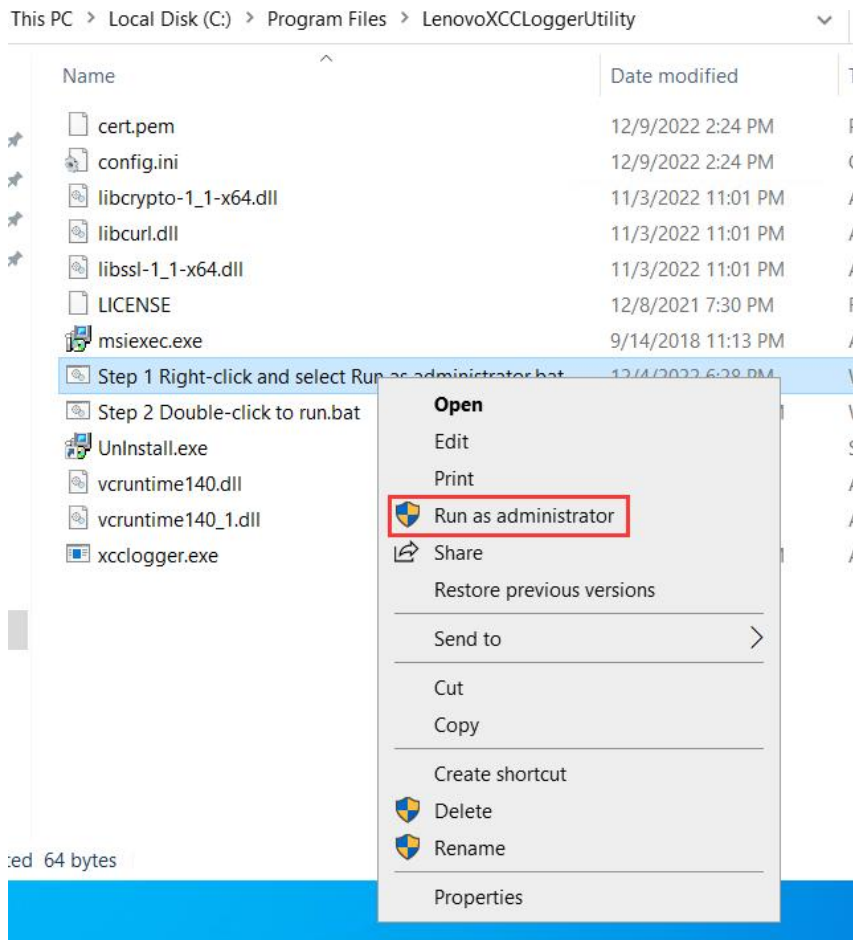
For example, **C:\Program Files\LenovoXCCLoggerUtility**

2. Find the following two BAT files in that folder:

This PC > Local Disk (C:) > Program Files > LenovoXCCLoggerUtility



3. Right click the “Step 1 Right-click and select Run as administrator.bat” and select “Run as administrator”



```
C:\Windows\System32\cmd.exe
C:\Windows\system32>C:\PROGRA~1\LENOVO~1\xccllogger.exe -i -m -p C:\Windows\Temp
Begin initialize procedure.
Getting XCC IP...
Creating XCC account...
Saved credential
Event source created
Update configuration file.
A new certificate is imported.
Initialize procedure finished normally.

C:\Windows\system32>pause
Press any key to continue . . .
```

4. Double click the “Step 2 Double-click to run.bat” to run

```
C:\Windows\system32\cmd.exe
C:\Program Files\LenovoXCCLoggerUtility>C:\PROGRA~1\LENOVO~1\xccllogger.exe -f -p C:\Windows\Temp
Saved credential to system.

C:\Program Files\LenovoXCCLoggerUtility>pause
Press any key to continue . . .
```

Chapter 4. Reporting events

This chapter shows how to report events using Lenovo XCC Logger Utility

Reporting events by command

1. Press [Windows] + [R] Keyboard Shortcut
2. In the textbox, type: cmd
3. Press [Enter] Key
4. In the cmd window, switch to the installation folder of Lenovo XCC Logger Utility

For example:

```
> cd /d C:\Program Files\LenovoXCCLoggerUtility
```

5. Use the following command to report events

```
> xcclogger -r [-u] [-s <start time> | --starttime <start time>] [-e <end time> | --endtime <end time>]
```

If only the “-r” option is specified, Lenovo XCC Logger Utility will use the saved credential to access the Redfish service of XCC through virtual network connection (Ethernet-over-USB).

If the “-u” are also specified with “-r”, Lenovo XCC Logger Utility will prompt user to input username and password for event reporting instead of the saved one, but only for this time. The saved credential will NOT be overwritten and still can be used for later calls without “-u”.

If “-s” or “--starttime” is specified, only the events generated no earlier than the time specified by <start time> will be reported.

If “-e” or “--endtime” is specified, only the events generated no later than the time specified by <end time> will be reported.

<start time> and <end time> should be the time string with the format YYYY-MM-DD HH:mm:SS, quoted with quotation marks. For example: -s “2000-01-01 12:00:00”

All the platform logs will be acquired from XCC and only the new events generated after the last reporting will be reported to Windows Event Log. If the events have been “cleared” after the last reporting, all the events acquired in this call will be reported. The category “Application” of Windows Event Log will be used.

A record will be saved in “check.dat” under the “%AppData%\LenovoXCCLoggerUtility” path. It contains the content of the latest event for locating the last reported event. If this file is removed or corrupted, the next call of event reporting will report all the events and generate a new record file. If the <start time> and/or <end time> is used, this record will be ignored.

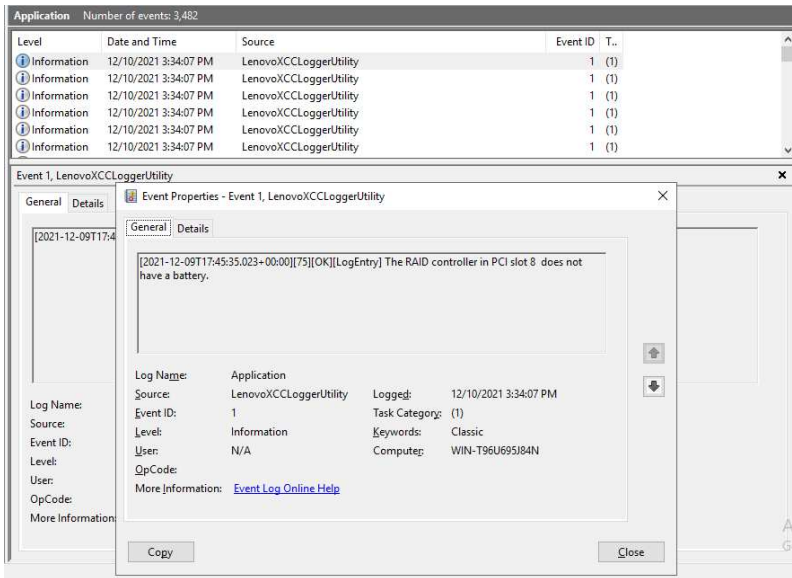
According to the configuration of Lenovo XCC Logger Utility, some type of the events may be suppressed and not reported to Windows Event Log (by default, all types of logs will be reported), and the event message format can be customized. Please refer to the [Configuration] chapter for more detail.

```

C:\Program Files\LenovoXCCLoggerUtility>xccllogger.exe -r
Begin report procedure.
Found 4 platform event.
reported 4 platform new events
Found 139 audit event.
reported 139 audit new events
Found 1 active event.
reported 1 active new events
Found 72 maintenance event.
reported 72 maintenance new events
Found 0 sa event.
Report procedure finished normally.

C:\Program Files\LenovoXCCLoggerUtility>

```



Chapter 5. Configuration

This chapter shows how to check and change the configuration of Lenovo XCC Logger Utility.

By default, a configuration file called "config.ini" is created in the installation directory, which may have the following content:

```
[xcc]

ipaddr = 169.254.95.118

username = xcclogger

[report]

severity_ok = true

severity_warning = true

severity_critical = true

severity_others = true

platformlog = true

auditlog = true

activelog = true

maintenancelog = true

salog = true

format_string = [%Created%][%EventId%][%Severity%][%Name%] %Message%
```

- "xcc - ipaddr" is the IP address of the virtual network device of Ethernet-over-USB feature.
 - It is acquired automatically from XCC during the installation.
 - It is not recommended to change it manually except when user needs to get the events from another network address.

Note: The credential saved or used for reporting must belong to the same XCC that the IP address directs.
- "xcc - username" is the username of XCC account.
 - By default, it will be "xcclogger" and this account will be automatically created or renewed by Lenovo XCC Logger Utility during installation.
 - If manually initialization is performed after installation and another username is specified by parameter "-U", that username will be stored here.
 - It should not be changed manually otherwise the credential may become invalid.
- "report - severity_ok", "report - severity_warning", "report - severity_critical" and "report - severity_others" indicate whether the event with the specified level should be reported. If set to false, they will be suppressed and not reported.

- “platformlog”, “auditlog”, “activelog”, “maintenancelog” and “salog” indicate whether the event with the specified category should be reported. If set to false, they will be suppressed and not reported.
- "report - format_string" can be used to customize the event message. The keyword surrounded by "%" will be replaced with the corresponding string in the event content.

Supported keywords:

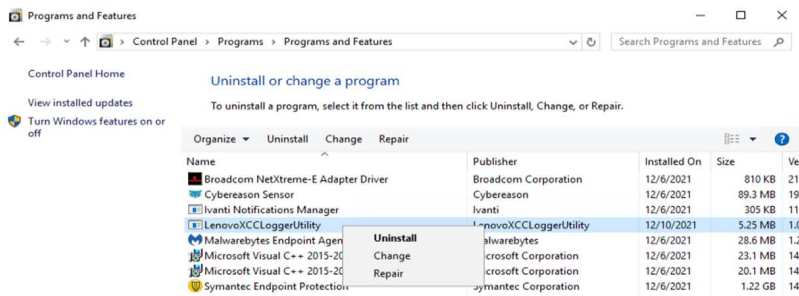
Keyword	Meaning	Sample
Created	Time when the event generated	2021-12-02T11:31:12.628+00:00
EventId	The index of the event	1
Severity	The severity level of the event	<ul style="list-style-type: none"> • OK • Warning • Critical
Name	The name of the event category	LogEntry
Message	The event message	The connector Front VGA Detect has been connected.

Chapter 6. Uninstallation

This chapter shows how to uninstall Lenovo XCC Logger Utility from operating system

Note: All the files in the installation directory and “%AppData%\LenovoXCCLoggerUtility” together with the directories themselves may be removed after uninstallation. If there are files that need to preserve, please copy, or move them to another directory before taking the uninstallation procedure. The credential of XCC saved in Windows Credential Manager will also be removed.

1. In the search box on the taskbar, type Control Panel and select it from the results.
2. Select Programs > Programs and Features.
3. Right-click on the LenovoXCCLoggerUtility and select Uninstall. Then follow the directions on the screen.



Chapter 7. FAQ

This chapter shows tips and troubleshooting for Lenovo XCC Logger Utility

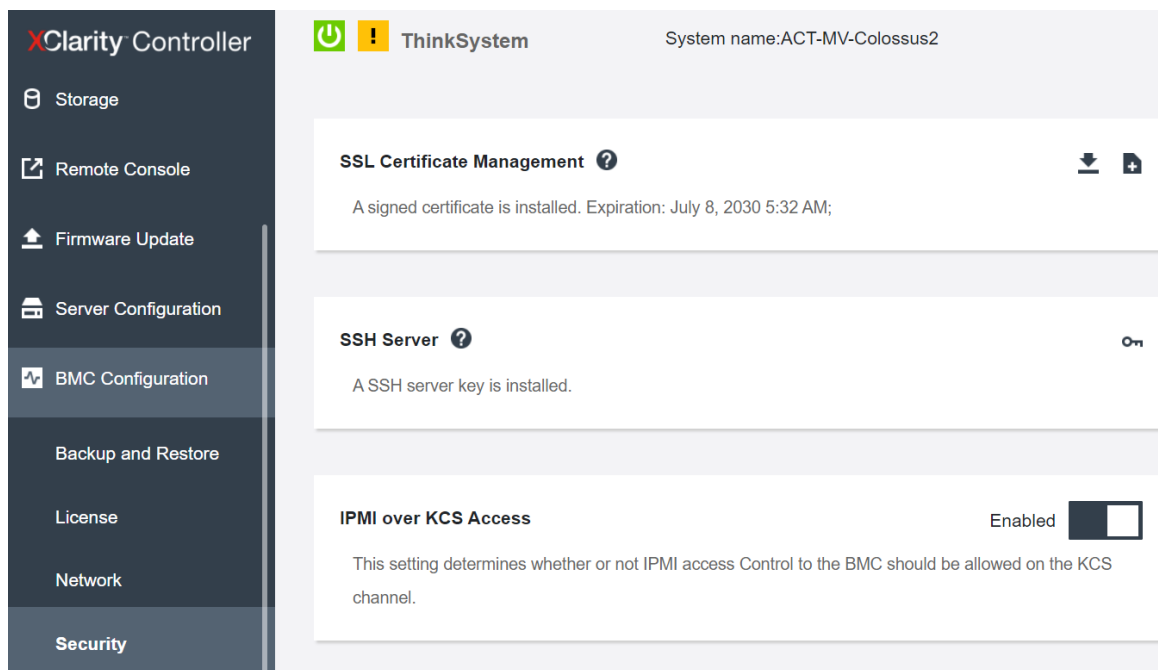
How to update the credential or set another XCC account

Please use [“Manually initialize” on page 6](#)

IPMI request failed during installation

Please make sure the IPMI driver is installed and enabled, and KCS feature of XCC is enabled.

KCS status can be verified on WebUI of XCC. Locate to [BMC Configuration] - [Security], make sure the [IPMI over KCS Access] is set to "Enabled" as follows:



Failed to report events when logged on with another Windows account

If user logged on with another Windows account (not the one used for the installation) and try to report the events using "xcclogger.exe -r" command, it may show the error message "Failed to load credential" and fail to report the events.

This is because to ensure the security of the XCC account credential, it is saved in the Windows user's credential set and managed by Windows. The credential cannot be read from another Windows account.

There are 2 solutions for this scenario.

1. (Recommended) Switch back to the original account used for the installation and retry reporting.
2. Use the following command and provide valid XCC credential to report the events.

> xcclogger -r -u

During installation or manual initialization, the message shows “Password is set but failed to renew. Ignore.”

Basically, this is NOT an error message and NOT necessarily means the installation or manual initialization is failed. This message can be ignored.

When Lenovo XCC Logger Utility creates an XCC account, it will set a random password for the account. For security purpose, it will try to change the password of the account to another random password phrase at once.

However, if the “Minimum password change interval” is set to non-zero in the XCC’s configuration, as a result, the password cannot be changed immediately.

In this case, Lenovo XCC Logger Utility will use the first password and cancel the change. This circumstance will not affect normal operation of the Lenovo XCC Logger Utility.

During installation or manual initialization, the message shows “Failed to set password by IPMI! Check the Minimum password change interval and wait for the set interval to reset the password, or set the interval to 0”

Unlike the circumstance in the section above, this symptom will affect the normal operation of the Lenovo XCC Logger Utility. Generally, if all the three conditions are “True”, this error will happen.

1. This is at least the second time that Lenovo XCC Logger Utility is installed or initialized. (Therefore, the account already exists in the XCC)
2. The “Minimum password change interval” is set to non-zero in the XCC’s configuration.
3. The time difference between this installation/initialization and the last installation/initialization is less than the interval set in 2) above

Then the password changing request is refused by XCC and the installation/initialization is failed.

This problem can be solved in 2 ways:

The first solution is to wait until “Minimum password change interval” has passed and retry to install or manually initialize.

The second solution is set “Minimum password change interval” to zero or a lesser value than the “time difference” in 3) above. The following part shows how to do it:

1. Open XCC WebUI login page in the browser.
2. Type valid XCC administrator username and password to login (NOT the username of the operating system)
3. Locate “BMC Configuration” - “User/LDAP” - “Global Settings”
4. Change “Minimum password change interval” to 0 or a lesser value than the “time difference”
5. Click “Apply”

Then retry to install or manually initialize.

When running the MSI installer, it failed with error message “This advertised application will not be installed because it might be unsafe. Contact your administrator to change the installation user interface option of the package to basic”

Generally, it's affected by the configuration of Windows Group Policy. It's recommended to contact IT service for a better solution.

There is a workaround for this scenario:

1. Open a CMD window with administrator privilege
2. Run the following command to install with the MSI installer of Lenovo XCC Logger Utility

```
> msixec.exe /i <full path of the MSI file> /qb
```

Example:

```
> msixec.exe /i D:\Download\xcclogger-1.0.8.msi /qb
```

This workaround above may cause the installed MSI installer unable to uninstall using Windows Control Panel. Refer to the following section for solution.

When uninstall Lenovo XCC Logger Utility using Windows Control Panel, it failed with error message “The installed product does not match the installation source”

There is a workaround for this scenario:

1. Open a CMD window with administrator privilege
2. Run the following command

```
> msixec.exe /i <full path of the MSI file> REINSTALLMODE=voums REINSTALL=ALL
```

Example:

```
> msixec.exe /i D:\Download\xcclogger-1.0.8.msi REINSTALLMODE=voums REINSTALL=ALL
```

3. In the installation window, select “repair LenovoXCCLoggerUtility” and finish the process
4. Uninstall Lenovo XCC Logger Utility using Windows Control Panel

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Part Number: SP47A30098

Printed in China

(1P) P/N: SP47A30098

