Advantech AE Technical Share Document

Date	2018/11/09	**SR#**	1-3518008183
Category	■FAQ □SOP	**Related OS**	Windows, Linux
Abstract	How to send, set, and receive trap from SNMP subagent client from ECU-4784?		
Keyword	ECU, SNMP, subagent, send, set, trap		
Related Product	ECU-4784		

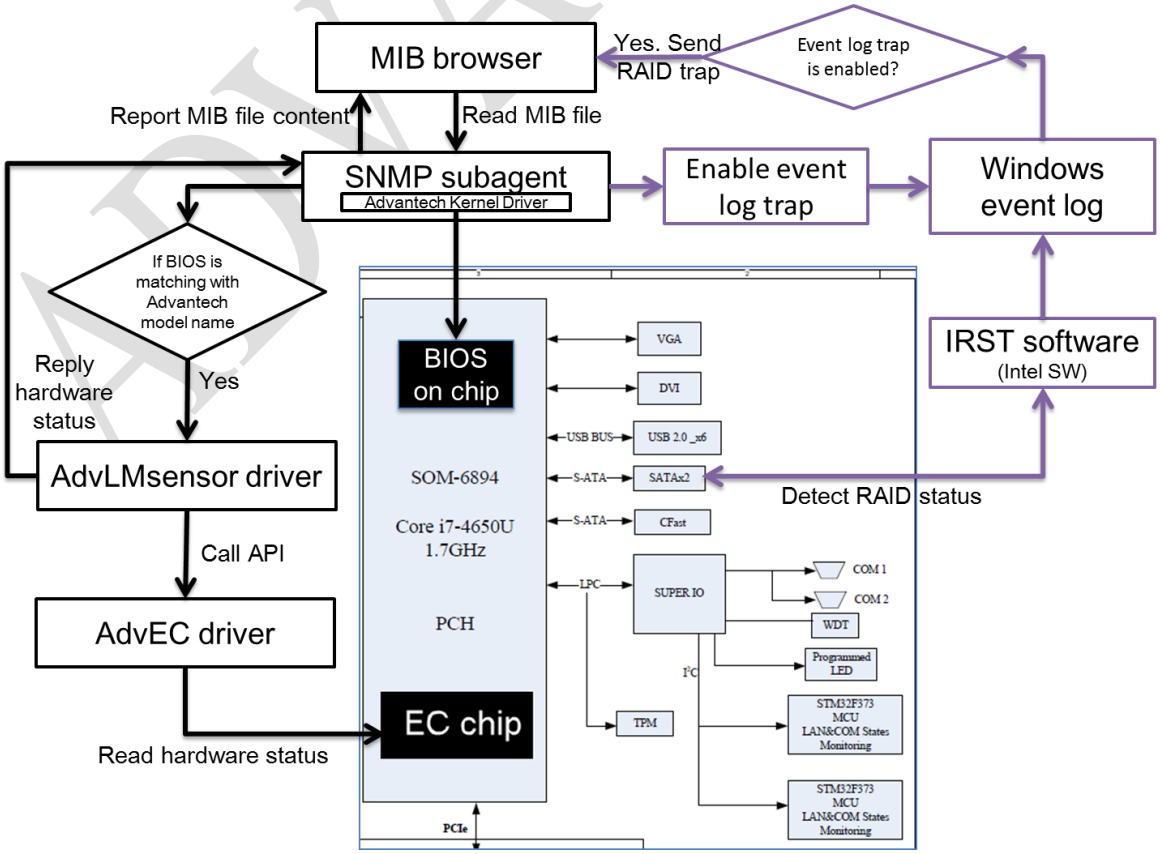
■ Problem Description:

This document shares the flow chart and the requirements of SNMP subagent.

■ Brief Solution:

For the SNMP, there are 3 requirements, and 1 item depends on the application:

1. EC hardware
2. AdvEC driver
3. AdvLmsensor driver
4. IRST (Intel® Rapid Storage Technology) application, only if a user made RAID setting, then this is a must.



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※ No matter which OS that a user is using, Windows or Linux, there are corresponding driver can be downloaded on support portal.
Windows:
http://support.advantech.com/Support/DownloadSRDetail_New.aspx?SR_ID=1-1B9DXW7&Doc_Source=Download
Linux:
http://support.advantech.com/Support/DownloadSRDetail_New.aspx?SR_ID=1-1B9CYQ3&Doc_Source=Download

※ EC hardware is installed in ECU-4784 and UNO-4000 as a standard component.

※ EC driver provides API functions for LMsensor driver.

※ LMsensor reports hardware status to the SNMP subagent.

※ SNMP subagent reports MIB file contents to the MIB browser "iff" the model name in the BIOS or SMBIOS is matching with the Advantech style.

※ **If a user wants to utilize the SNMP subagent for monitoring RAID status. Need to install the IRST for the OS version on Intel support portal.** You can consider the IRST application is a window or a portal of SNMP trap event. And the SNMP service can be found only if a user is using ECU embedded WSP Windows. This service is not supported by standard Windows OS.

1. The manual is in attached file or under the folder after install SNMP driver.

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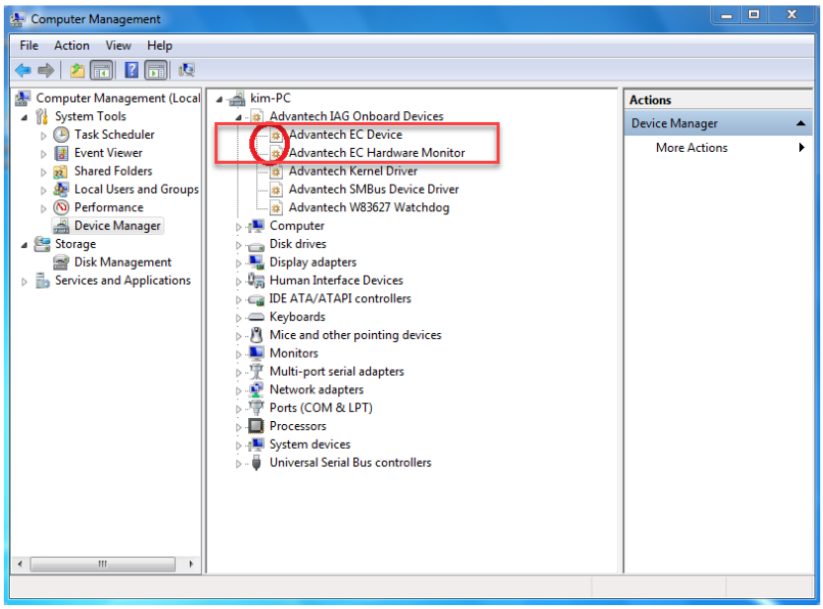
2. The pre-requirement driver is list in the manual.

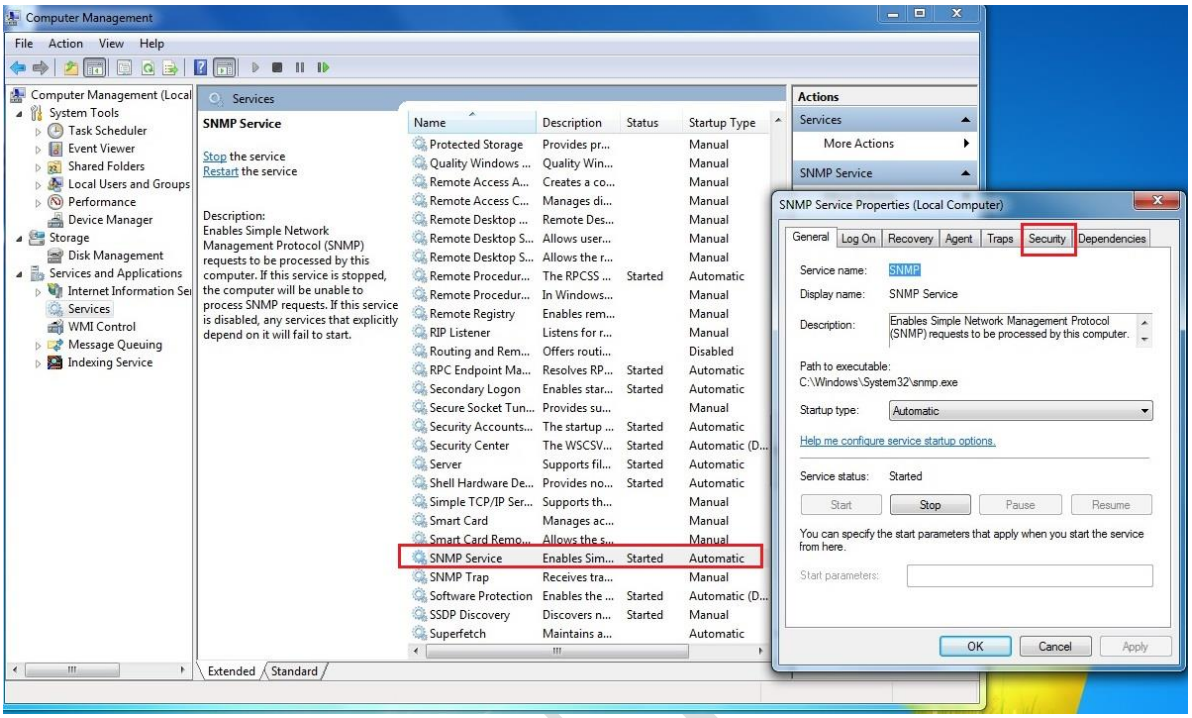
To install the Advantech Lmsensor Driver on ECU

1. Run the AdvEC_V1.04.003.exe first.
2. Run the AdvLmsensor_EC_V1.14.002.exe.

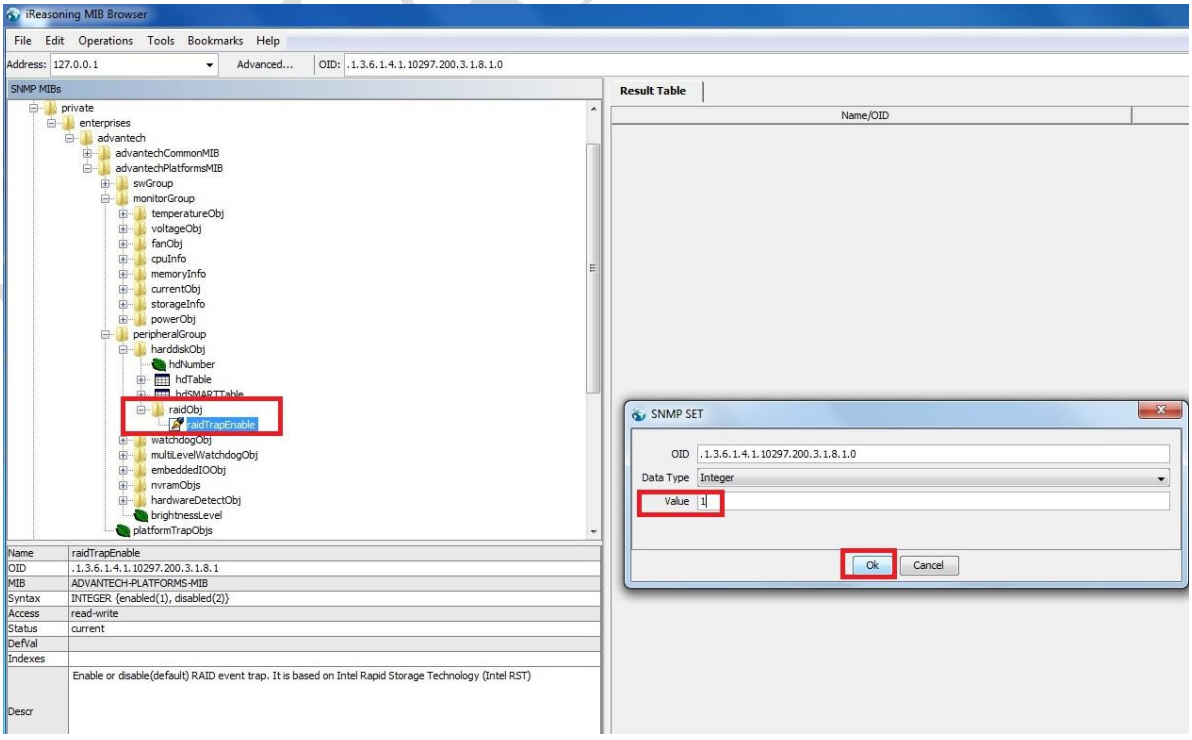
You can find the **Advantech EC Device** and the **Advantech EC Hardware Monitor** under the **Advantech IAG Onboard Devices** in the Windows Device Manager.



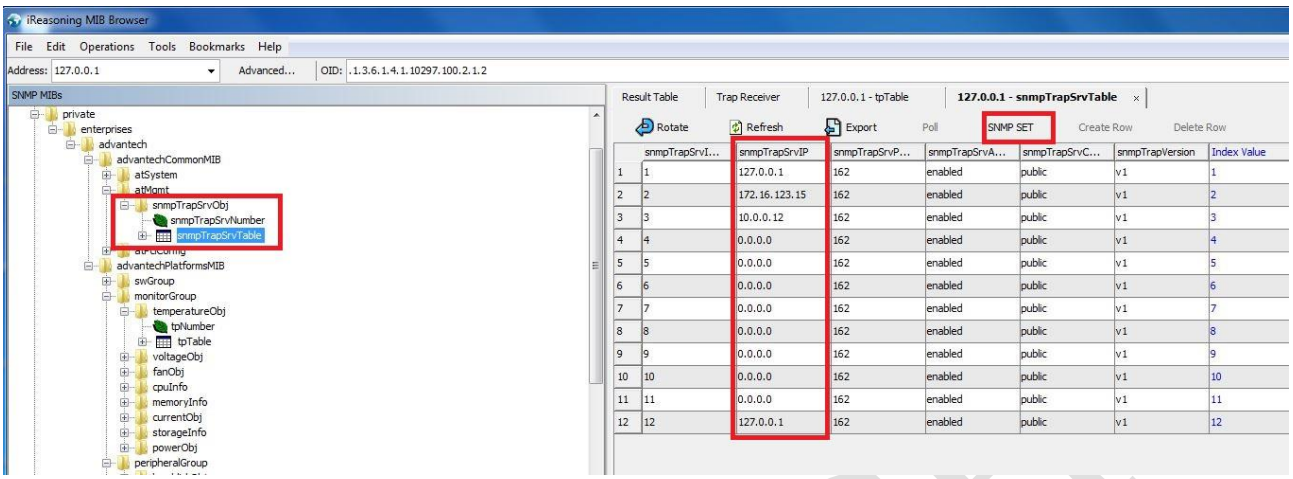
3. In manual P.34 panel can be found in “service”.
   This SNMP service can be found only if a user is using ECU embedded WSP Windows.



4. Enable trap function.
   Value: 0; //disable
   Value:1; //enable



5. Set up the target IP list.


iReasoning MIB Browser
File Edit Operations Tools Bookmarks Help
Address: 127.0.0.1
Advanced...
OID: .1.3.6.1.4.1.10297.100.2.1.2
SNMP MIBs
private
enterprises
advantech
advantechCommonMIB
atSystem
atMgmt
snmpTrapSrvObj
snmpTrapSrvNumber
snmpTrapSrvTable
advantechPlatformsMIB
swGroup
monitorGroup
temperatureObj
tpNumber
tpTable
voltageObj
fanObj
cpuInfo
memoryInfo
currentObj
storageInfo
powerObj
peripheralGroup
Result Table
Trap Receiver
127.0.0.1 - tpTable
127.0.0.1 - snmpTrapSrvTable
Rotate
Refresh
Export
Poll
SNMP SET
Create Row
Delete Row
snmpTrapSrvI...
snmpTrapSrvIP
snmpTrapSrvP...
snmpTrapSrvA...
snmpTrapSrvC...
snmpTrapVersion
Index Value
1 1 127.0.0.1 162 enabled public v1 1
2 2 172.16.123.15 162 enabled public v1 2
3 3 10.0.0.12 162 enabled public v1 3
4 4 0.0.0.0 162 enabled public v1 4
5 5 0.0.0.0 162 enabled public v1 5
6 6 0.0.0.0 162 enabled public v1 6
7 7 0.0.0.0 162 enabled public v1 7
8 8 0.0.0.0 162 enabled public v1 8
9 9 0.0.0.0 162 enabled public v1 9
10 10 0.0.0.0 162 enabled public v1 10
11 11 0.0.0.0 162 enabled public v1 11
12 12 127.0.0.1 162 enabled public v1 12

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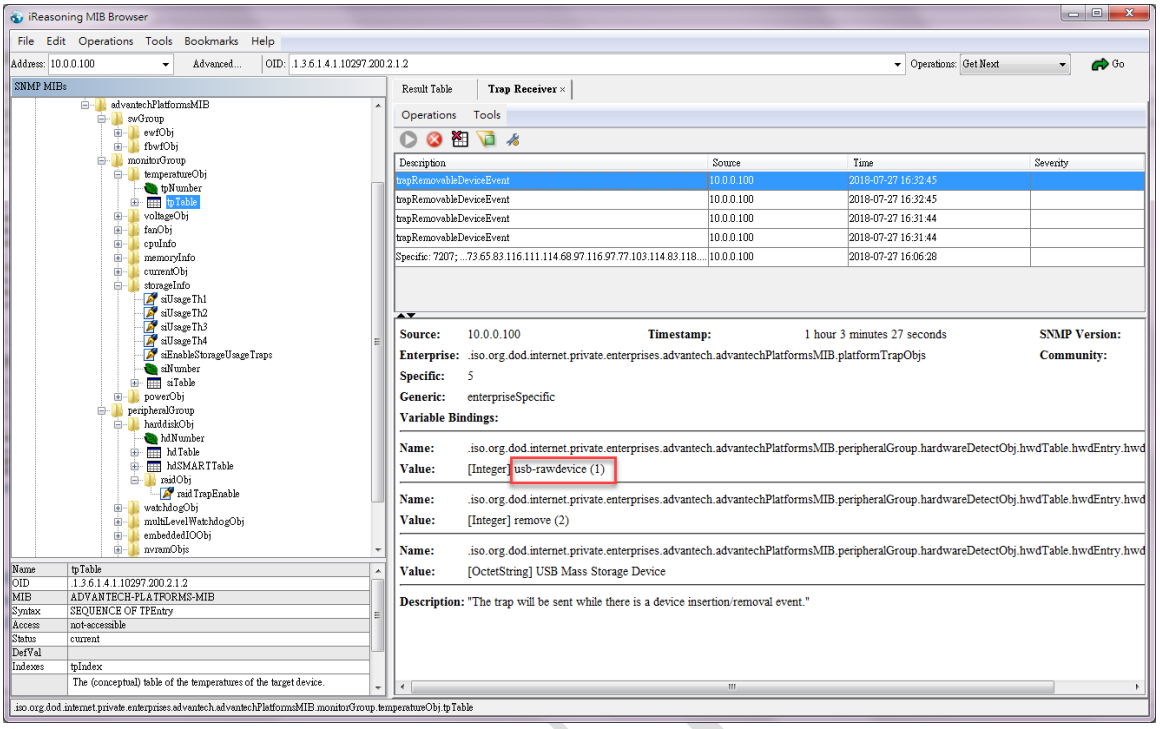
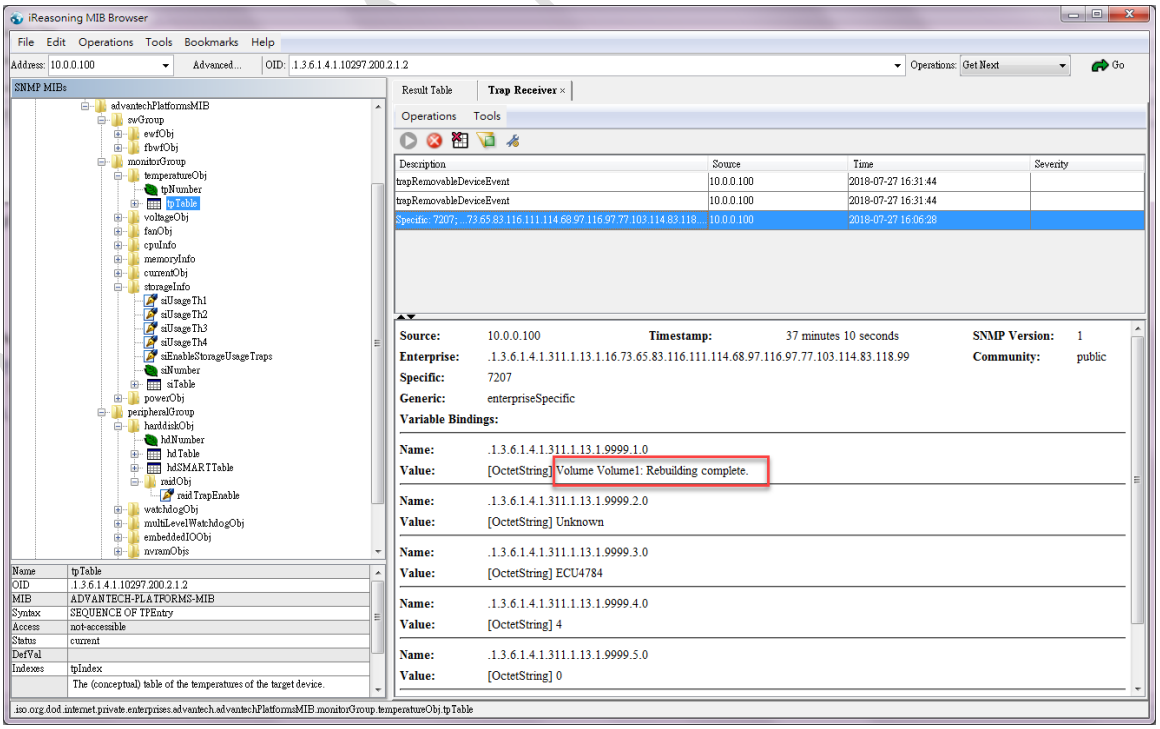
6. Track the event from receiver.

➔If remove USB.

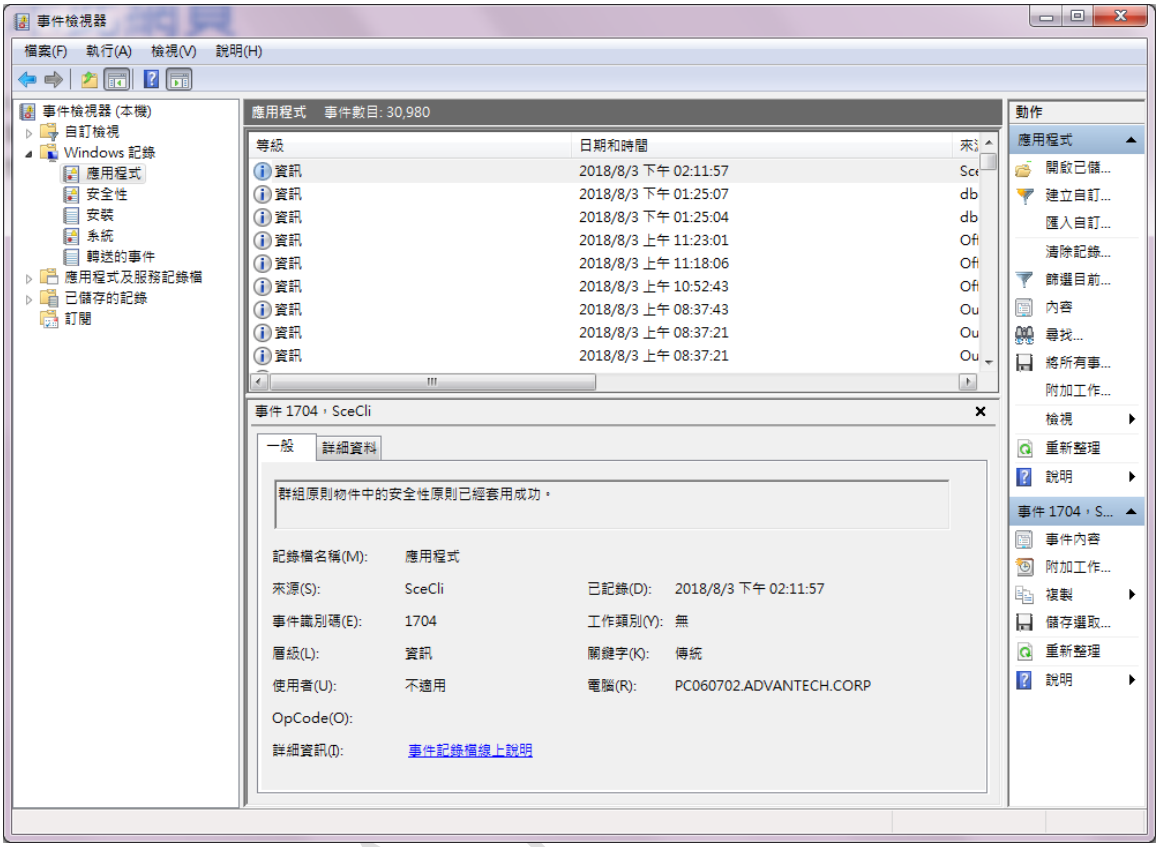


➔If RAID status changed.



7. This driver supports event ID: 7202, 7206, 7001, 7207, 7225.

The event ID means the event which is logged in “Windows event log”.



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