



VANTAGEO Server

Alarm Handling (BMC V4)

Version: R1.4

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Revision History

| Revision No. | Revision Date | Revision Reason |
|---------------------|----------------------|---|
| R1.4 | 2024-11-06 | <ul style="list-style-type: none">• Added "2.32 0x046f0d0e Hard disk remnant life is low".• Added "2.84 0x0a040401 Predictive failure asserted".• Added "2.135 0x20040c01 Memory predictive failure". |

| Revision No. | Revision Date | Revision Reason |
|--------------|---------------|--|
| | | <ul style="list-style-type: none"> ● Added "2.181 0x306f130e PCIE EDPC Event". ● Added "2.185 0x37010100 Below lower minor threshold". ● Added "2.186 0x37010102 Below lower major threshold". ● Added "2.187 0x37010104 Below lower critical threshold". ● Added "2.188 0x37010107 Above upper minor threshold". ● Added "2.189 0x37010109 Above upper major threshold". ● Added "2.190 0x3701010b Above upper major threshold". ● Added "2.201 0x96000011 Embedded netport link down". ● Added "2.202 0x96010100 Below upper minor threshold". ● Added "2.203 0x96010102 Below lower major threshold". ● Added "2.204 0x96010104 Below lower critical threshold". ● Added "2.205 0x96010107 Above upper minor threshold". ● Added "2.206 0x96010109 Above upper major threshold". ● Added "2.207 0x9601010b Above upper critical threshold". ● Added "2.208 0x96800011 Embedded netport link up". ● Updated "2.191 0x386f0f00 DPU soc post timeout". ● Updated "2.192 0x386f0f01 DPU bios post timeout". ● Deleted "2.118 0x1d040401 Predictive failure asserted". |
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| Revision No. | Revision Date | Revision Reason |
|--------------|---------------|---|
| | | <ul style="list-style-type: none"> ● Added "2.204 0xe0010102 Below lower major threshold". ● Added "2.205 0xe0010104 Below lower critical threshold". ● Added "2.206 0xe0010107 Above upper minor threshold". ● Added "2.207 0xe0010109 Above upper major threshold". ● Added "2.208 0xe001010b Above upper critical threshold". ● Added "2.209 0xe1010100 Below lower minor threshold". ● Added "2.210 0xe1010102 Below lower major threshold". ● Added "2.211 0xe1010104 Below lower critical threshold". ● Added "2.212 0xe1010107 Above upper minor threshold". ● Added "2.213 0xe1010109 Above upper major threshold". ● Added "2.214 0xe101010b Above upper critical threshold". |
| R1.2 | 2024-07-01 | <ul style="list-style-type: none"> ● Updated "2.32 0x04ef0d00 The disk removed". ● Updated "2.90 0x0aef0800 PSU removed". ● Updated "2.151 0x226f2b01 Firmware or software change detected with associated Entity". ● Updated "2.152 0x226f2b07 Software or FW Change detected with associated Entity was successful". ● Added "2.153 0x226f2c07 FRU communication lost". ● Updated "2.154 0x22ef2b07 Software or FW Change detected with associated Entity was successful". ● Added "2.170 0x2e6f2b01 Firmware or software change detected with associated Entity". |

| Revision No. | Revision Date | Revision Reason |
|--------------|---------------|---|
| | | <ul style="list-style-type: none">• Added "2.171 0x2e6f2b07 Software or F/W Change detected with associated Entity was successful".• Added "2.172 0x2eef2b07 Software or F/W Change detected with associated Entity was successful". |
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About This Manual

Purpose

This manual describes various types of alarms generated by the system, and their probable causes and handling suggestions, to provide you with guidance on handling these alarms.

Intended Audience

This manual is intended for:

- Software commissioning engineers
- Network management engineers
- Maintenance engineers




What Is in This Manual

This manual contains the following chapters.

| | |
|------------------------------|--|
| Chapter 1, Alarm Overview | Describes the alarm definition, presentation mode, severities, types, and fields. |
| Chapter 2, Alarm Handling | Describes the detailed information about alarms, and their probable causes and handling suggestions. |
| Chapter 3, Technical Support | Describes how to contact VANTAGEO technical support and the required preparations. |

Conventions

This manual uses the following conventions.

| | |
|---|---|
|  | Danger: indicates an imminently hazardous situation. Failure to comply will result in death or serious personal injury. |
| | Warning: indicates a potentially hazardous situation. Failure to comply can result in death or serious personal injury. |
| | Caution: indicates a potentially hazardous situation. Failure to comply can result in moderate or minor personal injury. |
|  | Notice: indicates equipment or environment safety information. Failure to comply can result in equipment damage, data loss, equipment performance degradation, environmental contamination, or other unpredictable results. |
|  | Note: provides additional information about a topic. |

Chapter 1

Alarm Overview

Alarm Definition

An alarm indicates a fault event that occurs in the system, has states, and is recoverable. Through alarms, the system reports faults that occur during equipment, software, and service operation to prompt you to handle the faults.

Presentation Modes

The **Current Alarms** tab on the Web portal of the [BMC](#) of a VANTAGEO server displays the alarms and notifications generated duration the operation of the VANTAGEO server.

- **Alarm:** warning message for a fault that frequently occurs during system operation and affects system operation reliability. An alarm persists for a period of time and is cleared only after the fault is removed. If an alarm occurs, you must immediately identify the cause of the alarm, locate the fault, and remove it.
- **Inform:** prompt message for an event that occurs during proper system operation and does not affect system operation. In most cases, no special manual intervention is required. You only need to wait until the system is automatically recovered. You need to identify the cause, locate the fault, and remove it only when a notification is frequently reported.

Alarm Severity

Alarm severities are determined in accordance with the impact of fault events on the system. For a description of the alarm severities, refer to [Table 1-1](#).

Table 1-1 Alarm Severity Descriptions

| Alarm Severity | Description |
|----------------|--|
| Critical | There is a fatal fault in the system. The system cannot operate properly. Action must be immediately taken to recover the system and remove the fault. |
| Major | There is a serious fault in the system. Although the system can continue operating, some important functions cannot be implemented. |
| Minor | There is a minor fault in the system. Although the system can still properly operate, some of the functions are affected. |

| Alarm Severity | Description |
|----------------|---|
| Inform | System operation information is provided. Notifications do not affect system operation. |

Alarm Type

For a description of the alarm types, refer to [Table 1-2](#).

Table 1-2 Alarm Type Descriptions

| Alarm Type | Description |
|--------------------------|---|
| Communications Alarm | Alarm that the system raises when a communication failure causes a system failure. |
| Processing Error Alarm | Alarm that the system raises when a manual operation error causes a system failure. |
| Quality of Service Alarm | Alarm that the system raises when a system failure occurs because the QoS does not meet the standard. |
| Equipment Alarm | Alarm that the system raises when a device failure causes a system failure. |
| Environmental Alarm | Alarm that the system raises when an environmental problem causes a system failure. |

Alarm Field

For a description of the fields contained in an alarm, refer to [Table 1-3](#).

Table 1-3 Alarm Field Descriptions

| Alarm Field | Description |
|-------------------|---|
| Alarm code | Indicates the code of an alarm in the system, for example, 0x03000012. |
| Alarm title | Uses the following format: " alarm code+alarm name ", for example, 0x03000012 Shut-down due to high CPU temperature. |
| Alarm description | Describes the symptoms in an alarm. |
| Alarm information | Consists of two parts: <ul style="list-style-type: none"> ● Alarm severity: For detailed definition, refer to Table 1-1. ● Alarm type: For detailed definition, refer to Table 1-2. |
| Alarm cause | Describes the root cause of an alarm. |
| Impact | Describes the impact on the system after an alarm occurs. |
| Action | Describes the procedures for locating a fault and clearing the corresponding alarm. |

Chapter 2

Alarm Handling

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2.1 0x03000012 Shutdown due to high CPU temperature

Alarm Description

This alarm is raised when the server is shut down due to high CPU temperature.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.

Impact

The heat cannot be well dissipated and the server cannot operate properly.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
 3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. On the **Heat Dissipation** tab on the Web portal of the [BMC](#), modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.2 0x03000013 CPU usage exceeds threshold

Alarm Description

This alarm is raised when the [CPU](#) usage exceeds the threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The CPU usage is high.

Impact

Services may be affected.

Action

1. Check whether the CPU usage threshold is low.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. In the **Set Alarm Threshold** dialog box on the Web portal of the BMC, modify the CPU usage threshold. Check whether the alarm is cleared.

**Note**

To enter the **Set Alarm Threshold** dialog box, select **System > Performance Monitoring**, and click **Advanced Setting**.

- Yes → End.
 - No → [Step 3](#).
3. Terminate unnecessary services to release CPU resources, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Contact VANTAGEO technical support.

2.3 0x03010107 Above upper minor threshold

Alarm Description

This alarm is raised when the [CPU](#) temperature is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air deflector is not installed correctly.
- The heat dissipation mode is not properly set.
- The mainboard or a CPU is faulty.

Impact

The data processing speed of the system may decrease.

Action

1. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Lower the ambient temperature of the equipment room to the required temperature, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 3](#).
3. On the **Current Alarms** tab on the Web portal of the [BMC](#), check whether there is an alarm indicating that the fan speed is low.

**Note**

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

- Yes → [Step 4](#).
 - No → [Step 6](#).
4. Remove and reinstall, or replace the fan unit that raises the low-speed alarm, and check whether the low-speed alarm is cleared after five minutes.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Check whether the high CPU temperature alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. Check whether the air deflector is correctly installed for the server.
 - Yes → [Step 8](#).
 - No → [Step 7](#).
 7. Correctly install an air deflector for the server, and check whether the high CPU temperature alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 8](#).
 8. On the **Heat Dissipation** tab on the Web portal of the BMC, change **Select Mode** to **Performance**. Check whether the high CPU temperature alarm is cleared after five minutes.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
- No → [Step 9](#).

9. Contact VANTAGEO technical support.

2.4 0x03010109 Above upper major threshold

Alarm Description

This alarm is raised when the **CPU** temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air deflector is not installed correctly.
- The heat dissipation mode is not properly set.
- The mainboard or a CPU is faulty.

Impact

The data processing speed may become slow and data may be lost.

Action

1. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Lower the ambient temperature of the equipment room to the required temperature, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 3](#).

3. On the **Current Alarms** tab on the Web portal of the **BMC**, check whether there is an alarm indicating that the fan speed is low.



To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

- Yes → [Step 4](#).
 - No → [Step 6](#).
4. Remove and reinstall, or replace the fan unit that raises the low-speed alarm, and check whether the low-speed alarm is cleared after five minutes.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Check whether the high CPU temperature alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. Check whether an air deflector is correctly installed for the server.
 - Yes → [Step 8](#).
 - No → [Step 7](#).
 7. Correctly install the air deflector for the server, and check whether the high CPU temperature alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 8](#).
 8. On the **Heat Dissipation** tab on the Web portal of the BMC, change **Select Mode** to **Performance**. Check whether the high CPU temperature alarm is cleared after five minutes.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 9](#).
9. Contact VANTAGEO technical support.

2.5 0x03010109 Above upper critical threshold

Alarm Description

This alarm is raised when the [CPU](#) temperature is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air deflector is not installed correctly.
- The heat dissipation mode is not properly set.
- The mainboard or a CPU is faulty.

Impact

The data processing speed may become slow and data may be lost.

Action

1. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Lower the ambient temperature of the equipment room to the required temperature, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 3](#).
3. On the **Current Alarms** tab on the Web portal of the [BMC](#), check whether there is an alarm indicating that the fan speed is low.



To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

-
- Yes → [Step 4](#).
 - No → [Step 6](#).

4. Remove and reinstall, or replace the fan unit that raises the low-speed alarm, and check whether the low-speed alarm is cleared after five minutes.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Check whether the high CPU temperature alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Check whether an air deflector is correctly installed for the server.
 - Yes → [Step 8](#).
 - No → [Step 7](#).
7. Correctly install the air deflector for the server, and check whether the high CPU temperature alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 8](#).
8. On the **Heat Dissipation** tab on the Web portal of the BMC, change **Select Mode** to **Performance**. Check whether the high CPU temperature alarm is cleared after five minutes.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 9](#).
9. Contact VANTAGEO technical support.

2.6 0x03010200 Below lower minor threshold

Alarm Description

This alarm is raised when the **CPU** voltage is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- There is a CPU fault.

- There is a mainboard fault.

Impact

The system may stop responding.

Action

1. Remove, one by one, the memory modules directly connected to the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Replace the faulty memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.7 0x03010202 Below lower major threshold

Alarm Description

This alarm is raised when the [CPU](#) voltage is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may stop responding.

Action

1. Remove, one by one, the memory modules directly connected to the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Replace the faulty memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.8 0x03010204 Below lower critical threshold

Alarm Description

This alarm is raised when the [CPU](#) voltage is below the lower critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may stop responding.

Action

1. Remove, one by one, the memory modules directly connected to the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → [Step 2](#).
 - No → [Step 3](#).

2. Replace the faulty memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.9 0x03010207 Above upper minor threshold

Alarm Description

This alarm is raised when the [CPU](#) voltage is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may stop responding.

Action

1. Remove, one by one, the memory modules directly connected to the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Replace the faulty memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Contact VANTAGEO technical support.

2.10 0x03010209 Above upper major threshold

Alarm Description

This alarm is raised when the [CPU](#) voltage is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may stop responding.

Action

1. Remove, one by one, the memory modules directly connected to the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Replace the faulty memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.11 0x0301020b Above upper critical threshold

Alarm Description

This alarm is raised when the [CPU](#) voltage is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may stop responding.

Action

1. Remove, one by one, the memory modules directly connected to the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Replace the faulty memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.12 0x03030701 State asserted

Alarm Description

This alarm is raised when a [CPU](#) is overheating.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air deflector is not installed correctly.
- The heat dissipation mode is not properly set.
- The mainboard or a CPU is faulty.

Impact

The data processing speed of the system may decrease.

Action

1. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Lower the ambient temperature of the equipment room to the required temperature, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 3](#).
3. On the **Current Alarms** tab on the Web portal of the **BMC**, check whether there is an alarm indicating that the fan speed is low.



Note

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

- Yes → [Step 4](#).
 - No → [Step 6](#).
4. Remove and reinstall, or replace the fan unit that raises the low-speed alarm, and check whether the low-speed alarm is cleared after five minutes.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Check whether the high CPU temperature alarm is cleared.

- Yes → End.
 - No → [Step 6](#).
6. Check whether an air deflector is correctly installed for the server.
- Yes → [Step 8](#).
 - No → [Step 7](#).
7. Correctly install the air deflector for the server, and check whether the high CPU temperature alarm is cleared after five minutes.
- Yes → End.
 - No → [Step 8](#).
8. On the **Heat Dissipation** tab on the Web portal of the BMC, change **Select Mode** to **Performance**. Check whether the high CPU temperature alarm is cleared after five minutes.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 9](#).
9. Contact VANTAGEO technical support.

2.13 0x036f0700 IERR

Alarm Description

This alarm is raised when a system error occurs on a [CPU](#).

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- There is a CPU fault.
- There is a mainboard fault.

Impact

The server may break down or be restarted.

Action

1. Replace the CPU that raises the alarm, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 2](#).
2. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
 3. Contact VANTAGEO technical support.

2.14 0x036f0701 Thermal Trip

Alarm Description

This alarm is raised when over-temperature occurs on a [CPU](#).

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air deflector is not installed correctly.
- The heat dissipation mode is not properly set.
- The mainboard or a CPU is faulty.

Impact

The mainboard may be powered off forcibly.

Action

1. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Lower the ambient temperature of the equipment room to the required temperature, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 3](#).
3. On the **Current Alarms** tab on the Web portal of the [BMC](#), check whether there is an alarm indicating that the fan speed is low.

**Note**

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

- Yes → [Step 4](#).
 - No → [Step 6](#).
4. Remove and reinstall, or replace the fan unit that raises the low-speed alarm, and check whether the low-speed alarm is cleared after five minutes.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Check whether the high CPU temperature alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. Check whether an air deflector is correctly installed for the server.
 - Yes → [Step 8](#).
 - No → [Step 7](#).
 7. Correctly install the air deflector for the server, and check whether the high CPU temperature alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 8](#).
 8. On the **Heat Dissipation** tab on the Web portal of the BMC, change **Select Mode** to **Performance**. Check whether the high CPU temperature alarm is cleared after five minutes.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 9](#).
9. Contact VANTAGEO technical support.

2.15 0x036f0702 FRB1/BIST failure

Alarm Description

This alarm is raised when the [BIST](#) of a [CPU](#) fails.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may fail to be started properly.

Action

1. Remove and reinstall the power cable to power off and then power on the server, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.16 0x036f0703 FRB2/Hang in POST failure

Alarm Description

This alarm is raised when a [CPU](#) hangs due to a [POST](#) failure.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The [BIOS](#) fails to be started.

Impact

Services may be interrupted.

Action

1. Disable the watchdog, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.17 0x036f0704 FRB3/Processor Startup/Initialization failure

Alarm Description

This alarm is raised when [CPU](#) initialization fails.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A CPU fails to be started.
- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may fail to be started properly.

Action

1. Remove and reinstall the power cable to power off and then power on the server, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.18 0x036f0705 CPU configuration error

Alarm Description

This alarm is raised when a [CPU](#) configuration error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The models of present CPUs are different.
- There is a CPU fault.
- There is a mainboard fault.

Impact

The system cannot be started properly.

Action

1. Query and record the current CPU models, and check whether the CPU models are different.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Use the same model of CPUs, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Transpose the CPU that raises the alarm and a normal CPU that does not raise any alarm, and check whether the alarm still exists on the CPU that raises the alarm.
 - Yes → [Step 4](#).
 - No → [Step 5](#).
4. Replace the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.19 0x036f0708 Processor disabled

Alarm Description

This alarm is raised when a [CPU](#) is disabled.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may fail to be started properly.

Action

1. Remove and reinstall the power cable to power off and then power on the server, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.20 0x036f070a Processor Automatically Throttled

Alarm Description

This alarm is raised when [CPU](#) throttling is automatically enabled.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The system reduces heat dissipation.
- The system limits power consumption.

Impact

The data processing speed of the system may decrease.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the operating temperature requirements for the server.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Check whether the power supply is normal.
 - Yes → [Step 9](#).
 - No → [Step 8](#).

8. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 9](#).
9. Replace the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 10](#).
10. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 11](#).
11. Contact VANTAGEO technical support.

2.21 0x036f070b Machine Check Exception

Alarm Description

This alarm is raised when a [CPU](#) is found abnormal during machine check.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

There is a CPU fault.

Impact

The server may not operate properly.

Action

1. On the **Current Alarms** tab on the Web portal of the [BMC](#), check the position of the abnormal CPU.



Note

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, power off the server, and remove the corresponding CPU, and check whether the socket has bent pins.
 - Yes → [Step 3](#).
 - No → [Step 4](#).
3. Replace the mainboard, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 5](#).
4. Reinstall the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. Contact VANTAGEO technical support.

2.22 0x036f070c Correctable Machine Check Error

Alarm Description

This alarm is raised when a correctable error occurs inside a [CPU](#).

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A correctable error occurs inside a CPU.
- There is a mainboard fault.

Impact

The server may not operate properly.

Action

1. Power off the server, remove all CPUs, and transpose the CPUs horizontally, vertically, or diagonally.
2. Power on the server, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. On the **Current Alarms** tab on the Web portal of the [BMC](#), check the position of the abnormal CPU.



Note

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

4. Replace the faulty CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.23 0x036f070d CPU system has a catastrophic error

Alarm Description

This alarm is raised when [CPU](#) system has a catastrophic error.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- There is a CPU fault.
- There is a mainboard fault.

Impact

The system may crash or restart.

Action

1. Replace the CPU that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.24 0x04010107 Above upper minor threshold

Alarm Description

This alarm is raised when the hard disk temperature is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- A hard disk is faulty.
- The hard disk backplane is faulty.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.



Note

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Check whether an air deflector is correctly installed for the server.
 - Yes → [Step 9](#).
 - No → [Step 8](#).
 8. Correctly install the air deflector for the server, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 9](#).
 9. Replace the faulty hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 10](#).
 10. Contact VANTAGEO technical support.

2.25 0x04010109 Above upper major threshold

Alarm Description

This alarm is raised when the hard disk temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- A hard disk is faulty.
- The hard disk backplane is faulty.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).

2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Check whether an air deflector is correctly installed for the server.
 - Yes → [Step 9](#).
 - No → [Step 8](#).
 8. Correctly install the air deflector for the server, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 9](#).
 9. Replace the faulty hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 10](#).
 10. Contact VANTAGEO technical support.

2.26 0x0401010b Above upper critical threshold

Alarm Description

This alarm is raised when the hard disk temperature is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, to stop operating or operate improperly.
- A hard disk is faulty.
- The hard disk backplane is faulty.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).

6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Check whether an air deflector is correctly installed for the server.
 - Yes → [Step 9](#).
 - No → [Step 8](#).
 8. Correctly install the air deflector for the server, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 9](#).
 9. Replace the faulty hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 10](#).
 10. Contact VANTAGEO technical support.

2.27 0x046f0d00 The disk installed

Alarm Description

This alarm is raised when a hard disk is installed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

A hard disk is installed.

Impact

None.

Action

None.

2.28 0x046f0d01 Drive fault

Alarm Description

This alarm is raised when the disk drive is faulty.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

There is a hard disk error or fault.

Impact

Hard disks cannot operate properly, and the system cannot operate properly.

Action

1. Replace the disk drive, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Remove the ambient temperature problem or fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.29 0x046f0d02 Drive predictive failure

Alarm Description

This alarm is raised when there is an early warning for a hard disk fault.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

Read-only mode is used for hard disks.

Impact

The reliability of hard disks is reduced, thus affecting the operation of the server.

Action

1. Replace the faulty hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Remove the ambient temperature problem or fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.30 0x046f0d05 Drive in critical array

Alarm Description

This alarm is raised when a hard disk is in a degraded logical array.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

A hard disk is removed or is faulty.

Impact

The reliability of the server may be reduced.

Action

1. Check whether a hard disk is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Install the hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the hard disk, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.31 0x046f0d06 Drive in failed array

Alarm Description

This alarm is raised when a hard disk is in an offline logical array.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

A hard disk is removed or is faulty.

Impact

The reliability of the server may be reduced.

Action

1. Check whether a hard disk is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Reinstall the hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.32 0x046f0d0e Hard disk remnant life is low

Alarm Description

This alarm is raised when an early warning of use life is triggered for a hard disk.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The remaining use life of a hard disk is short.

Impact

The server may stop responding or data is lost.

Action

1. Replace the hard disk that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.33 0x04ef0d00 The disk removed

Alarm Description

This alarm is raised when a hard disk is removed.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

A hard disk is removed.

Impact

The reliability of the server may be reduced.

Action

1. Check whether a hard disk is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Reinstall a hard disk in the corresponding position, and check whether the **The disk installed** notification is raised accordingly.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the hard disk, and check whether the **The disk installed** notification is raised accordingly.

- Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.34 0x07010107 Above upper minor threshold

Alarm Description

This alarm is raised when the bridge chip temperature is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- There is a mainboard fault.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Replace the mainboard, and check whether the alarm is cleared.
- Yes → End.
 - No → [Step 8](#).
8. Contact VANTAGEO technical support.

2.35 0x07010109 Above upper major threshold

Alarm Description

This alarm is raised when the bridge chip temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- There is a mainboard fault.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
 3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
 8. Contact VANTAGEO technical support.

2.36 0x0701010b Above upper critical threshold

Alarm Description

This alarm is raised when the bridge chip temperature is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- There is a mainboard fault.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

 **Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

-
- Yes → End.
 - No → [Step 7](#).
7. Replace the mainboard, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 8](#).
8. Contact VANTAGEO technical support.

2.37 0x07071506 Transition to Non-recoverable

Alarm Description

This alarm is raised when the system is in unrecoverable fault status.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a power module fault.
- There is a [CPU](#) fault.
- There is a mainboard fault.

Impact

The server may fail to operate properly.

Action

1. Check whether the power supply is normal.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the faulty CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.38 0x07071901 Transition to Non-critical from OK

Alarm Description

This alarm is raised when an [ME](#) is abnormal.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

Unknown.

Impact

System-related information cannot be obtained properly.

Action

1. Wait for 10 minutes, and then check whether this alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Power off and then power on the server, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.39 0x076f0500 Chassis cover opened

Alarm Description

This alarm is raised when the chassis cover is open.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The chassis cover is open.

Impact

The heat dissipation of the chassis is affected, and server components are not well protected.

Action

1. Check whether the cover is opened manually.
 - Yes → End.
 - No → [Step 2](#).
2. Completely open the chassis cover and then close it. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.40 0x076f0f00 System firmware error

Alarm Description

This alarm is raised when an error occurs on the system firmware.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The [BIOS](#) detects [ROM](#) corruption in the [POST](#) phase.
- The [CPU](#) microcode fails to be loaded.

Impact

Services may be interrupted.

Action

1. Power off the server and then restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Upgrade the BIOS firmware, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Upgrade the BIOS and [BMC](#) firmware to the latest versions, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.41 0x076f0f01 System firmware hang

Alarm Description

This alarm is raised when the system firmware hangs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- No memory is available in the server.
- Different types of memory modules are used together in the server.

Impact

Services may be interrupted.

Action

1. Check whether memory modules are not correctly installed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Correctly install memory modules, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Upgrade the [BIOS](#) and [BMC](#) firmware to the latest versions, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Remove and reinstall the power cable to power off and then power on the server, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Install memory modules of the same model, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.42 0x076f1002 Log area reset/cleared

Alarm Description

This alarm is raised when a system event log is cleared.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

A system event log is cleared.

Impact

None.

Action

None.

2.43 0x076f1003 All event logging disabled

Alarm Description

This alarm is raised when the system event logging function is disabled.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The system event logging function is disabled.

Impact

There are no logs for system events.

Action

1. Enable the system event logging function, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.44 0x076f1004 SEL full

Alarm Description

This alarm is raised when there is no space available for storing system event logs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The space where system event logs are stored is full.

Impact

Early event logs may be overwritten and lost.

Action

1. On the **SEL Logs** page on the Web portal of the BMC, click **Clear SEL Logs**. Check whether the alarm is cleared.



Note

To enter the **SEL Logs** page, select **Maintenance > SEL Logs**.

- Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.45 0x076f1202 Undetermined system hardware failure

Alarm Description

This alarm is raised when an unknown system hardware fault occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.

- There is a [CPU](#) fault.
- There is a mainboard fault.

Impact

The system may stop responding.

Action

1. Install memory modules of the same model, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the faulty CPU, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the mainboard, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.46 0x076f1400 Power Button pressed

Alarm Description

This alarm is raised when the power button is pressed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The power button on the front panel of the server is pressed.

Impact

The server is powered off.

Action

None.

2.47 0x076f1402 Reset Button pressed

Alarm Description

This alarm is raised when the server restart button is pressed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The server is restarted.

Impact

Services may be affected.

Action

1. Check the operation logs to see whether the **Reset** command is delivered.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.48 0x076f1d00 Initiated by power up

Alarm Description

This alarm is raised when the server is started.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The server is started.

Impact

Services may be interrupted.

Action

None.

2.49 0x076f1d01 Initiated by hard reset

Alarm Description

This alarm is raised when a hard reboot is performed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

A hard reboot is performed.

Impact

Services may be interrupted.

Action

None.

2.50 0x076f1d02 Initiated by warm reset

Alarm Description

This alarm is raised when a warm reboot is performed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

A warm reboot is performed.

Impact

Services may be interrupted.

Action

None.

2.51 0x076f1d03 User requested PXE boot

Alarm Description

This alarm is raised when PXE boot is requested by a user.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The OS is booted from the [PXE](#).

Impact

None.

Action

None.

2.52 0x076f2003 OS Graceful Shutdown

Alarm Description

This alarm is raised when the server is gracefully shut down.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The server is properly shut down.

Impact

None.

Action

None.

2.53 0x076f2200 SO / G0 "working"

Alarm Description

This alarm is raised when the server is operating properly.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The server is operating properly.

Impact

None.

Action

None.

2.54 0x076f2205 S5 / G2 "soft-off"

Alarm Description

This alarm is raised when soft shutdown is performed for the server.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

Soft shutdown is performed for the server.

Impact

None.

Action

None.

2.55 0x076f2300 Watchdog Overflow: No Action

Alarm Description

This alarm is raised when the system does not take any action after a watchdog timeout occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a hardware error or BIOS startup error if this alarm is raised in the [BIOS](#) startup phase or [POST](#) phase.
- There is an OS startup error if this alarm is raised in the [OS](#) loading phase.
- There is a service software error if this alarm is raised in the [SMS](#) or OS startup phase.

Impact

The server may fail to operate properly.

Action

1. Disable the watchdog, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check the server startup process through the [KVM](#). Perform the following operations as required.

| If... | Do... |
|--|---|
| This alarm is raised in the BIOS startup phase or POST phase | Log in to the Web portal of the BMC , and check the information about port 80. |
| This alarm is raised in the OS loading phase | Start the KVM to check the error information printed by the OS to locate the error. |
| This alarm is raised in the SMS or OS startup phase | Access the OS, and check whether the watchdog software set in it is operating properly or stops responding. |

3. Record the related information.
4. Contact VANTAGEO technical support.

2.56 0x076f2301 Watchdog Overflow: Hard Reset

Alarm Description

This alarm is raised when the system is restarted due to a watchdog timeout.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a hardware error or BIOS startup error if this alarm is raised in the [BIOS](#) startup phase or [POST](#) phase.
- There is an [OS](#) startup error if this alarm is raised in the [OS](#) loading phase.
- There is a service software error if this alarm is raised in the [SMS](#) or OS startup phase.

Impact

The server may fail to operate properly.

Action

1. Disable the watchdog, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check the server startup process through the [KVM](#), and perform the following operations as required.

| If... | Then... |
|--|---|
| This alarm is raised in the BIOS startup phase or POST phase | Log in to the Web portal of the BMC , and check the information about port 80. |
| This alarm is raised in the OS loading phase | Start the KVM to check the error information printed by the OS to locate the error. |
| This alarm is raised in the SMS or OS startup phase | Access the OS, and check whether the watchdog software set in it is operating properly or stops responding. |

3. Record the related information.
4. Contact VANTAGEO technical support.

2.57 0x076f2302 Watchdog Overflow: Power Down

Alarm Description

This alarm is raised when the system is shut down due to a watchdog timeout.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a hardware error or BIOS startup error if this alarm is raised in the [BIOS](#) startup phase or [POST](#) phase.
- There is an [OS](#) startup error if this alarm is raised in the [OS](#) loading phase.
- There is a service software error if this alarm is raised in the [SMS](#) or OS startup phase.

Impact

The server may fail to operate properly.

Action

1. Disable the watchdog, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check the server start process through the [KVM](#). Perform the following operations as required.

| If... | Then... |
|--|--|
| This alarm is raised in the BIOS startup phase or POST phase | Log in to the Web portal of the BMC , and check the information about port 80. |
| This alarm is raised in the OS loading phase | Start the KVM to check the error information printed in the service system to locate the error. |
| This alarm is raised in the SMS or OS startup phase | Enter the service system, and check whether the watchdog software set in the system is operating properly or stops responding. |

3. Record the related information.
4. Contact VANTAGEO technical support.

2.58 0x076f2303 Watchdog Overflow: Power Cycle

Alarm Description

This alarm is raised when the system is shut down and then started due to a watchdog timeout.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a hardware error or BIOS startup error if this alarm is raised in the [BIOS](#) startup phase or [POST](#) phase.
- There is an [OS](#) startup error if this alarm is raised in the [OS](#) loading phase.
- There is a service software error if this alarm is raised in the [SMS](#) or OS startup phase.

Impact

The server may fail to operate properly.

Action

1. Disable the watchdog, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check the server start process through the [KVM](#). Perform the following operations as required.

| If... | Then... |
|--|--|
| This alarm is raised in the BIOS startup phase or POST phase | Log in to the Web portal of the BMC , and check the information about port 80. |
| This alarm is raised in the OS loading phase | Start the KVM to check the error information printed in the service system to locate the error. |
| This alarm is raised in the SMS or OS startup phase | Enter the service system, and check whether the watchdog software set in the system is operating properly or stops responding. |

3. Record the related information.
4. Contact VANTAGEO technical support.

2.59 0x076f2308 Watchdog Overflow: Timer interrupt

Alarm Description

This alarm is raised when the system is interrupted due to a watchdog timeout.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a hardware error or BIOS startup error if this alarm is raised in the [BIOS](#) startup phase or [POST](#) phase.
- There is an [OS](#) startup error if this alarm is raised in the [OS](#) loading phase.
- There is a service software error if this alarm is raised in the [SMS](#) or OS startup phase.

Impact

The server may fail to operate properly.

Action

1. Disable the watchdog, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check the server start process through the [KVM](#). Perform the following operations as required.

| If... | Then... |
|--|--|
| This alarm is raised in the BIOS startup phase or POST phase | Log in to the Web portal of the BMC , and check the information about port 80. |
| This alarm is raised in the OS loading phase | Start the KVM to check the error information printed in the service system to locate the error. |
| This alarm is raised in the SMS or OS startup phase | Enter the service system, and check whether the watchdog software set in the system is operating properly or stops responding. |

3. Record the related information.
4. Contact VANTAGEO technical support.

2.60 0x076f2901 battery failed

Alarm Description

This alarm is raised when a [CMOS](#) error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- No button cell is installed on the mainboard.
- The button cell on the mainboard runs low.

Impact

- The time of the system may become incorrect.
- The data stored in the [CMOS](#) may be lost.
- A system configuration error may occur.
- The system cannot operate properly.

Action

1. Check whether a button cell is installed on the mainboard.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Install a button cell, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
3. Replace the button cell on the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.61 0x0a000011 Power supply input undervoltage fault

Alarm Description

This alarm is raised when power input undervoltage occurs.

Alarm Information

- Alarm severity: Major

- Alarm type: Equipment Alarm

Alarm Cause

- The external power supply is abnormal.
- The power cable is not connected or is loose.
- There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Check whether the power supply is abnormal.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.62 0x0a000012 Power supply input undervoltage warning

Alarm Description

This alarm is raised when power input undervoltage occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The external power supply is abnormal.
- The power cable is not connected or is loose.
- There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Check whether the power supply is abnormal.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.63 0x0a000013 Power supply input overvoltage fault

Alarm Description

This alarm is raised when power input overvoltage occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The external power supply is abnormal.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Check whether the power supply is abnormal.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.64 0x0a000014 Power supply input overvoltage warning

Alarm Description

This alarm is raised when power input overvoltage occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The external power supply is abnormal.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Check whether the power supply is abnormal.

- Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
 3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. Contact VANTAGEO technical support.

2.65 0x0a000015 Power supply output undervoltage fault

Alarm Description

This alarm is raised when power output undervoltage occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.66 0x0a000016 Power supply output undervoltage warning

Alarm Description

This alarm is raised when power output undervoltage occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.67 0x0a000017 Power supply output overvoltage fault

Alarm Description

This alarm is raised when power output overvoltage occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.68 0x0a000018 Power supply output overvoltage warning

Alarm Description

This alarm is raised when power output overvoltage occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.69 0x0a000019 Power supply output undercurrent fault

Alarm Description

This alarm is raised when power output undercurrent occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A short circuit occurs on the power output side.
- A short circuit occurs on the power backplane.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the power backplane, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.70 0x0a00001a Power supply output overcurrent fault

Alarm Description

This alarm is raised when power output overcurrent occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A short circuit occurs on the power output side.
- A short circuit occurs on the power backplane.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the power backplane, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.71 0x0a00001b Power supply output overcurrent warning

Alarm Description

This alarm is raised when power output overcurrent occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A short circuit occurs on the power output side.
- A short circuit occurs on the power backplane.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the power backplane, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.72 0x0a00001c Power supply overtemperature fault

Alarm Description

This alarm is raised when power supply over-temperature occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Check whether a fan unit-related alarm exists.

- Yes → [Step 2](#).
 - No → [Step 3](#).
2. Replace the faulty fan unit, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
 3. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 4](#).
 - No → [Step 5](#).
 4. Lower the ambient temperature of the equipment room to the required temperature, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Check whether the air intake or air outlet of the server is blocked by foreign objects.
 - Yes → [Step 6](#).
 - No → [Step 7](#).
 6. Remove the foreign objects, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
 7. Check whether blank slots or clearance between servers is filled with baffles.
 - Yes → [Step 9](#).
 - No → [Step 8](#).
 8. Install baffles in the blank slots or clearance between servers, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 9](#).
 9. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 10](#).
 10. Contact VANTAGEO technical support.

2.73 0x0a00001d Power supply overtemperature warning

Alarm Description

This alarm is raised when power supply over-temperature occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- There is a power module fault.

Impact

The system power supply is affected, and the system may be powered off unexpectedly.

Action

1. Check whether a fan unit–related alarm exists.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Replace the faulty fan unit, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 4](#).
 - No → [Step 5](#).
4. Lower the ambient temperature of the equipment room to the required temperature, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Check whether the air intake or air outlet of the server is blocked by foreign objects.
 - Yes → [Step 6](#).
 - No → [Step 7](#).
6. Remove the foreign objects, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Check whether blank slots or clearance between servers is filled with baffles.
 - Yes → [Step 9](#).
 - No → [Step 8](#).
8. Install baffles in the blank slots or clearance between servers, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 9](#).
9. Replace the power module that raises the alarm, and check whether the alarm is cleared.
- Yes → End.
 - No → [Step 10](#).
10. Contact VANTAGEO technical support.

2.74 0x0a00001e Power supply fan1 fault

Alarm Description

This alarm is raised when power supply fan 1 is faulty.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The power module heat dissipation is affected, and the server power supply is affected. As a result, the server may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.75 0x0a00001f Power supply fan1 warning

Alarm Description

This alarm is raised when power supply fan 1 is faulty.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The power module heat dissipation is affected, and the server power supply is affected. As a result, the server may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.76 0x0a000020 Power supply fan2 fault

Alarm Description

This alarm is raised when power supply fan 2 is faulty.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The power module heat dissipation is affected, and the server power supply is affected. As a result, the server may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.77 0x0a000021 Power supply fan2 warning

Alarm Description

This alarm is raised when power supply fan 2 is faulty.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

There is a power module fault.

Impact

The power module heat dissipation is affected, and the server power supply is affected. As a result, the server may be powered off unexpectedly.

Action

1. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.78 0x0a000022 Power of the system exceeds the alarm threshold

Alarm Description

This alarm is raised when the system power exceeds the threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The system power alarm threshold is low.
- The services running on the [OS](#) side are using too much resources.

Impact

The server is consuming more power than expected.

Action

1. On the **Power Consumption** tab on the Web portal of the **BMC**, modify the system power alarm threshold or disable the power threshold function. Check whether the alarm is cleared.

**Note**

To enter the **Power Consumption** tab, select **System > Power**, and click **Power Consumption**.

- Yes → End.
 - No → [Step 2](#).
2. Terminate unnecessary services on the OS side to release **CPU** and memory resources, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
 3. Contact VANTAGEO technical support.

2.79 0x0a010107 Above upper minor threshold

Alarm Description

This alarm is raised when the power module temperature is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The internal fan of a power module is faulty.

Impact

The power module lifespan is affected, and the server power supply is affected. As a result, the server may be powered off, and services are affected.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
 3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. On the **Heat Dissipation** tab on the Web portal of the [BMC](#), modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
 8. Contact VANTAGEO technical support.

2.80 0x0a010109 Above upper major threshold

Alarm Description

This alarm is raised when the power module temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major

- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The internal fan of a power module is faulty.

Impact

The power module lifespan is affected, and the server power supply is affected. As a result, the server may be powered off, and services are affected.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the [BMC](#), modify the heat dissipation mode. Check whether the alarm is cleared.



Note

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End

- No → [Step 7](#).
7. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
 8. Contact VANTAGEO technical support.

2.81 0x0a010202 Below lower major threshold

Alarm Description

This alarm is raised when the power voltage is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The external power supply is abnormal.
- The power output voltage is abnormal.
- The power firmware is abnormal.

Impact

The server may fail to operate properly.

Action

1. Check whether the power supply is abnormal.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End

- No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.82 0x0a010209 Above upper major threshold

Alarm Description

This alarm is raised when the power voltage is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The external power supply is abnormal.
- The power output voltage is abnormal.
- The power firmware is abnormal.

Impact

The server power supply is affected, and thus the server may fail to operate properly.

Action

1. Check whether the power supply is abnormal.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.83 0x0a030901 State Asserted

Alarm Description

This alarm is raised when abnormal power-on or power-off occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The server power supply or power chip is faulty.

Impact

The server cannot be powered on properly.

Action

1. Remove and reinstall the power supply, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the power supply system or power chip of the server is abnormal.
 - Yes → [Step 3](#).
 - No → [Step 4](#).
3. Troubleshoot the power supply system and the power chip, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.84 0x0a040401 Predictive failure asserted

Alarm Description

This alarm is raised when the fan of a [PSU](#) is faulty.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The fan of a PSU is faulty.

Impact

The internal temperature of the server rises.

Action

1. Check whether the fan of the PSU stops.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Troubleshoot the fan fault, and remove and reinstall the PSU. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the PSU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.85 0x0a0b0801 Redundancy Lost

Alarm Description

This alarm is raised when the redundant power module is lost.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A power module is removed.
- The power cable is not connected or is loose.
- There is a power module fault.

Impact

Power supply reliability may be reduced.

Action

1. Check whether a power module is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).

2. Install power modules in idle power module slots one by one, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.86 0x0a6f0800 PSU installed

Alarm Description

This alarm is raised when a power module is installed.

Alarm Information

- Alarm severity: Inform/Minor



Note

When a power module is inserted for the first time, the alarm severity is inform.
When the power module is inserted again after being removed, the alarm level is minor.

- Alarm type: Equipment Alarm

Alarm Cause

A power module is installed.

Impact

None.

Action

None.

2.87 0x0a6f0801 Power supply failure detected

Alarm Description

This alarm is raised when a power module failure is detected.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The input voltage of a power module is abnormal.
- The input current of a power module is abnormal.
- The input power of a power module is abnormal.
- The output voltage of a power module is abnormal.
- The output current of a power module is abnormal.
- The output power of a power module is abnormal.
- The temperature of a power module is abnormal.
- The power module fans are abnormal.
- The power firmware is abnormal.

Impact

The server power supply is affected, and thus the server may fail to operate properly.

Action

1. Check whether the power supply is abnormal.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.88 0x0a6f0802 Power supply predictive failure

Alarm Description

This alarm is raised when there is an early warning for a power module failure.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The input voltage of a power module is abnormal.
- The input current of a power module is abnormal.
- The input power of a power module is abnormal.
- The output voltage of a power module is abnormal.
- The output current of a power module is abnormal.
- The output power of a power module is abnormal.
- The temperature of a power module is abnormal.
- The power module fans are abnormal.
- The power firmware is abnormal.

Impact

A power module may be faulty, affecting power supply to the server.

Action

1. Check whether the power supply is abnormal.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty power module, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.89 0x0a6f0803 Power supply input lost(AC/DC)

Alarm Description

This alarm is raised when the [AC](#) power supply is interrupted.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The power cable is not installed or is loose.
- There is a power module fault.

Impact

The server may be powered off unexpectedly.

Action

1. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Under the condition that the server has power supply, remove and reinstall the power module that raises the alarm. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.90 0x0a6f0804 Power supply input lost or out-of-range

Alarm Description

This alarm is raised when there is no power input.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The power cable is not installed or is loose.
- There is a power module fault.

Impact

The server may be powered off unexpectedly.

Action

1. Remove and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace and reinstall the power cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Under the condition that the server has power supply, remove and reinstall the power module that raises the alarm. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.91 0x0a6f0806 Power supply configuration error

Alarm Description

This alarm is raised when a power supply configuration error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The models of power modules are different.

Impact

The power supply may be abnormal, and thus the server may be powered off unexpectedly.

Action

1. Check whether the power modules are of the same model.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Replace the power modules to make the power module models the same, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.92 0x0aef0800 PSU removed

Alarm Description

This alarm is raised when a power module is removed.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

A power module is removed.

Impact

The server power supply is affected, and thus the server may fail to operate properly.

Action

1. Check whether a power module is removed.
 - Yes → [Step 2](#).

- No → [Step 3](#).
2. Install power modules in idle power module slots one by one, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
 3. Replace the power module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Replace the power backplane, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Contact VANTAGEO technical support.

2.93 0x0b010100 Below lower minor threshold

Alarm Description

This alarm is raised when the temperature is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The temperature sensor is faulty.

Impact

The data processing speed of the system may decrease.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.94 0x0b010102 Below lower major threshold

Alarm Description

This alarm is raised when the temperature is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The temperature sensor is faulty.

Impact

The data processing speed of the system may decrease.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.95 0x0b010104 Below lower critical threshold

Alarm Description

This alarm is raised when the temperature is below the lower critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The temperature sensor is faulty.

Impact

Some system functions may be unavailable.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.96 0x0b010107 Above upper minor threshold

Alarm Description

This alarm is raised when the temperature is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.

Impact

Data processing speed may decrease, and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).

3. Remove the ambient temperature problem, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared after five minutes.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.97 0x0b010109 Above upper major threshold

Alarm Description

This alarm is raised when the temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, operating or operate improperly.

Impact

Data processing speed may decrease, and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared after five minutes.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.98 0x0b01010b Above upper critical threshold

Alarm Description

This alarm is raised when the temperature is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.

Impact

Some system functions may be unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared after five minutes.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.99 0x0b010200 Below lower minor threshold

Alarm Description

This alarm is raised when the voltage is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

A subcard is not operating properly.

Impact

Some functions of the subcard may be unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the subcard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.100 0x0b010207 Above upper minor threshold

Alarm Description

This alarm is raised when the voltage is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

A subcard is not operating properly.

Impact

Some functions of the subcard may be unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the subcard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.101 0x0b010309 Above upper critical threshold

Alarm Description

This alarm is raised when the current is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

A subcard is not operating properly.

Impact

Some functions of the subcard may be unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the subcard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.102 0x1a000013 Hard Disk's SMART status is abnormal

Alarm Description

This alarm is raised when a [SMART](#) error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The SMART parameters of hard disks are incorrect.

Impact

The system may stop responding or data is lost.

Action

1. Replace the hard disk that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.103 0x1a000014 Above upper major threshold

Alarm Description

This alarm is raised when the hard disk temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- A hard disk is faulty.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
 3. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Replace the faulty hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
 8. Contact VANTAGEO technical support.

2.104 0x1a000015 Hard disk remnant life is low

Alarm Description

This alarm is raised when the remaining use life of a hard disk is short.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The remaining use life of a hard disk is short.

Impact

The system may stop responding or data is lost.

Action

1. Replace the hard disk that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.105 0x1a000016 Hard disk is missing

Alarm Description

This alarm is raised when a hard disk is missing.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A hard disk is removed.
- The [SAS](#) cable is loose.
- A hard disk is faulty.

Impact

The system may stop responding or data is lost.

Action

1. Check whether the SAS cable is incorrectly connected, is loose, or is damaged.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Reconnect or replace the SAS cable, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the hard disk that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 4](#).
4. Replace the disk backplane, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Contact VANTAGEO technical support.

2.106 0x1a000017 Hard disk has foreign configuration

Alarm Description

This alarm is raised when a hard disk involves foreign configurations.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

A hard disk already has a logical relationship.

Impact

The system may stop responding or data is lost.

Action

1. Clear or import [RAID](#) configurations, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.107 0x1a000018 Hard disk is failure

Alarm Description

This alarm is raised when a hard disk is faulty.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

A hard disk is faulty.

Impact

The system may stop responding or data is lost.

Action

1. Replace the hard disk that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.108 0x1a000019 Above upper critical threshold

Alarm Description

This alarm is raised when the hard disk temperature is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- A hard disk is faulty.

Impact

Services may be interrupted and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).

4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Replace the hard disk that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
 8. Contact VANTAGEO technical support.

2.109 0x1a00001a Hard disk usage exceeds threshold

Alarm Description

This alarm is raised when the hard disk usage exceeds the threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The hard disk usage is high.

Impact

Services may be interrupted and data may be lost.

Action

1. Check whether the hard disk usage threshold is low.
 - Yes → [Step 2](#).

- No → [Step 3](#).
2. In the **Set Alarm Threshold** dialog box on the Web portal of the BMC, modify the hard disk usage threshold. Check whether the alarm is cleared.

**Note**

To enter the **Set Alarm Threshold** dialog box, select **System > Performance Monitoring**, and click **Advanced Setting**.

- Yes → End.
 - No → [Step 3](#).
3. Delete unnecessary files to release hard disk resources, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Contact VANTAGEO technical support.

2.110 0x1a000081 Hard disk RAID array is part degraded

Alarm Description

This alarm is raised when the [RAID](#) array is partially degraded.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A hard disk is removed from the RAID array.
- A hard disk in the RAID array is faulty.

Impact

The redundancy capability of the hard disks decreases or data is lost.

Action

1. Check whether a hard disk is removed from the RAID array.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Install the hard disk in the original slot, and rebuild the RAID array. Check whether the alarm is cleared.

- Yes → End.
 - No → [Step 3](#).
3. Replace the hard disk that causes the RAID array to be degraded, and rebuild the RAID array. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Contact VANTAGEO technical support.

2.111 0x1a000082 Hard disk RAID array is degraded

Alarm Description

This alarm is raised when the [RAID](#) array is degraded.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A hard disk is removed from the RAID array.
- A hard disk in the RAID array is faulty.

Impact

The redundancy capability of the hard disks decreases or data is lost.

Action

1. Check whether a hard disk is removed from the RAID array.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Install the hard disk in the original slot, and rebuild the RAID array. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the hard disk that causes the RAID array to be degraded, and rebuild the RAID array. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.112 0x1a000083 Hard disk RAID array is offline

Alarm Description

This alarm is raised when the [RAID](#) array is offline.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- A hard disk is removed from the RAID array.
- A hard disk in the RAID array is faulty.

Impact

The system may stop responding or data is lost.

Action

1. Check whether a hard disk is removed from the RAID array.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Reinstall a member disk, and rebuild the RAID array. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the faulty member disk, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.113 0x1d000013 Shutdown due to all fans absent

Alarm Description

This alarm is raised when the server is shut down due to absence of all fans.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- All fans are removed.

- The fan units and the mainboard are in poor contact.

Impact

The heat cannot be well dissipated and the server cannot operate properly.

Action

1. Check whether all fan units are removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Install the fan units, and restart the server. Check whether the server is not shut down anymore.
 - Yes → End.
 - No → [Step 5](#).
3. Remove and reinstall the fan units, and restart the server. Check whether the server is not shut down anymore.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the faulty fan unit, and restart the server. Check whether the server is not shut down.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.114 0x1d010202 Below lower major threshold

Alarm Description

This alarm is raised when the fan voltage is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A fan unit is faulty.
- There is a mainboard fault.

Impact

The heat dissipation of the server is affected.

Action

1. Remove and reinstall the fan unit that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the faulty fan unit, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.115 0x1d010209 Above upper major threshold

Alarm Description

This alarm is raised when the fan voltage is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a fan unit fault.
- There is a mainboard fault.

Impact

The heat dissipation of the server is affected.

Action

1. Remove and reinstall the fan unit that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the faulty fan unit, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.116 0x1d010400 Below lower minor threshold

Alarm Description

This alarm is raised when the fan speed is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

Fan damage leads to abnormal rotation speed.

Impact

The internal temperature of the server may rise.

Action

1. Check whether the fans operate slowly.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the fan fault, and remove and reinstall the fans. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the faulty fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.117 0x1d010402 Below lower major threshold

Alarm Description

This alarm is raised when the fan speed is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

Fan damage leads to abnormal rotation speed.

Impact

The internal temperature of the server may rise.

Action

1. Check whether the fans operate slowly.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the fan fault, and remove and reinstall the fans. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the faulty fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.118 0x1d010407 Above upper minor threshold

Alarm Description

This alarm is raised when the fan speed is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

Fan damage leads to abnormal rotation speed.

Impact

The system power consumption may increase.

Action

1. Check whether the current fan speed exceeds the rated speed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the fan fault, and remove and reinstall the fans. Check whether the alarm is cleared.
 - Yes → End.

- No → [Step 3](#).
3. Replace the faulty fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Contact VANTAGEO technical support.

2.119 0x1d010409 Above upper major threshold

Alarm Description

This alarm is raised when the fan speed is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

Fan damage leads to abnormal rotation speed.

Impact

The system power consumption may increase.

Action

1. Check whether the current fan speed exceeds the rated speed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the fan fault, and remove and reinstall the fans. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the faulty fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.120 0x1d070401 The fan is abnormal

Alarm Description

This alarm is raised when a fan is abnormal.

Alarm Information

- Alarm level: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The rotation speed of the fan is below the lower threshold.
- The duty value and speed of the fan do not match.

Impact

The temperature inside the chassis increases.

Action

1. Check whether the fan operates slowly and stops operating, and whether the fan speed is different from the configured speed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the fan fault, and remove and reinstall the fan. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the faulty fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.121 0x1d080400 Device Removed / Device Absent

Alarm Description

This alarm is raised when a fan is offline.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A fan is in poor contact.
- There is a mainboard fault.
- There is a fan fault.

Impact

The server heat dissipation is affected, and the performance of mainboard components is degraded.

Action

1. Check whether the fan that raises the alarm is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Install the fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and reinstall the fan that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the faulty fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.122 0x1d080401 Device Inserted / Device Present

Alarm Description

This alarm is raised when a fan is installed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

A fan is installed on the server.

Impact

None.

Action

None.

2.123 0x1d0b0401 Redundancy Lost

Alarm Description

This alarm is raised when a redundant fan is missing.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A fan unit is removed.
- There is a fan unit fault.

Impact

The heat dissipation of the server is affected.

Action

1. Check whether a fan unit is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Install fan units in idle fan slots one by one, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Check whether the fans stop.
 - Yes → [Step 4](#).
 - No → [Step 5](#).
4. Remove and reinstall the cables of fan units, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Replace the faulty fan unit, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Contact VANTAGEO technical support.

2.124 0x1d880401 Device Removed / Device Absent

Alarm Description

This alarm is raised when a fan is absent.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A fan is in poor contact.
- The mainboard is faulty.
- A fan is not operating properly.

Impact

The heat dissipation of the server is affected, and the performance of mainboard components is degraded.

Action

1. Check whether the fan that raises the alarm is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Install the fan if available or a fan of the same model, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
3. Remove and reinstall the fan that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the faulty fan, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.125 0x1e00014 Liquid cooling system leaks

Alarm Description

This alarm is raised when the liquid leaks from the liquid cooling system.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment alarm

Alarm Cause

The liquid cooling device is faulty.

Impact

The heat dissipation module cannot operate properly, and thus the server may fail to operate properly.

Action

1. Contact VANTAGEO technical support.

2.126 0x1e000015 Liquid cooling system is out of service

Alarm Description

This alarm is raised when the leak detection cable of the liquid cooling system becomes abnormal.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The liquid cooling device is faulty.

Impact

The heat dissipation module cannot operate properly, and thus the server may fail to operate properly.

Action

1. Contact VANTAGEO technical support.

2.127 0x1e000016 Liquid cooled server but the liquid cooled board cannot be detected

Alarm Description

This alarm is raised when the leak detection card of a liquid-cooled server is not present.

Alarm Information

- Alarm severity: Major

- Alarm type: Equipment Alarm

Alarm Cause

The liquid cooling device is faulty.

Impact

The heat dissipation module cannot operate properly, and thus the server may fail to operate properly.

Action

1. Contact VANTAGEO technical support.

2.128 0x1e000017 The liquid cooling board is present but not the liquid cooling server

Alarm Description

This alarm is raised when a non-liquid-cooled server has a leak detection card.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

None.

Impact

None.

Action

None.

2.129 0x1e000018 The liquid line is absent

Alarm Description

This alarm is raised when the leak detection cable of the liquid cooling system is not present.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The liquid cooling device is faulty.

Impact

The heat dissipation module cannot operate properly, and thus the server may fail to operate properly.

Action

1. Contact VANTAGEO technical support.

2.130 0x1e071901 Liquid cooling system leaks

Alarm Description

This alarm is raised when liquid leaks from the liquid cooling system.

Alarm Information

- Alarm level: Major
- Alarm type: Equipment Alarm

Alarm Cause

The liquid cooling device is faulty.

Impact

The heat dissipation module is faulty, which may cause the server to fail to operate properly.

Action

1. Contact VANTAGEO technical support.

2.131 0x20000011 Memory usage exceeds threshold

Alarm Description

This alarm is raised when the memory usage exceeds the threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The memory usage is high.

Impact

Services may be affected.

Action

1. Check whether the memory usage threshold is low.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. In the **Set Alarm Threshold** dialog box on the Web portal of the BMC, modify the memory usage threshold. Check whether the alarm is cleared.

**Note**

To enter the **Set Alarm Threshold** dialog box, select **System > Performance Monitoring**, and click **Advanced Setting**.

- Yes → End.
 - No → [Step 3](#).
3. Terminate unnecessary services to release memory resources, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Contact VANTAGEO technical support.

2.132 0x20010107 Above upper minor threshold

Alarm Description

This alarm is raised when the memory temperature is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air intake or air outlet is blocked.

- There is a memory fault.
- There is a mainboard fault.

Impact

The memory may not operate stably and services may be interrupted.

Action

1. Wait 3 to 5 minutes, and then check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

-
- Yes → End.
 - No → [Step 7](#).
 7. Check whether the air intake or air outlet of the server is blocked.
 - Yes → [Step 8](#).
 - No → [Step 9](#).
 8. Remove the foreign objects, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 9](#).
9. Transpose the memory module that raises the alarm and a normal memory module that does not raise any alarm, and check whether the alarm still exists on the memory module that raises the alarm.
- Yes → [Step 10](#).
 - No → [Step 11](#).
10. Replace the memory module that raises the alarm, and check whether the alarm is cleared.
- Yes → End.
 - No → [Step 11](#).
11. Replace the mainboard, and check whether the alarm is cleared.
- Yes → End.
 - No → [Step 12](#).
12. Contact VANTAGEO technical support.

2.133 0x20010109 Above upper major threshold

Alarm Description

This alarm is raised when the memory temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air intake or air outlet is blocked.
- There is a memory fault.
- There is a mainboard fault.

Impact

The memory may not operate stably and services may be interrupted.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
 3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
 5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
 6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Check whether the air intake or air outlet of the server is blocked.
 - Yes → [Step 8](#).
 - No → [Step 9](#).
 8. Remove the foreign objects, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 9](#).
 9. Transpose the memory module that raises the alarm and a normal memory module that does not raise any alarm, and check whether the alarm still exists on the memory module that raises the alarm.
 - Yes → [Step 10](#).
 - No → [Step 11](#).
 10. Replace the memory module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.

- No → [Step 11](#).
11. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 12](#).
 12. Contact VANTAGEO technical support.

2.134 0x2001010b Above upper critical threshold

Alarm Description

This alarm is raised when the memory temperature is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air intake or air outlet is blocked.
- There is a memory fault.
- There is a mainboard fault.

Impact

The memory may not operate stably and services may be interrupted.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).

4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

-
- Yes → End.
 - No → [Step 7](#).
7. Check whether the air intake or air outlet of the server is blocked.
 - Yes → [Step 8](#).
 - No → [Step 9](#).
 8. Remove the foreign objects, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 9](#).
 9. Transpose the memory module that raises the alarm and a normal memory module that does not raise any alarm, and check whether the alarm still exists on the memory module that raises the alarm.
 - Yes → [Step 10](#).
 - No → [Step 11](#).
 10. Replace the memory module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 11](#).
 11. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 12](#).
 12. Contact VANTAGEO technical support.

2.135 0x20040c01 Memory predictive failure

Alarm Description

This alarm is raised when an early warning of a memory error is triggered.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

A memory module is faulty.

Impact

The server may be restarted or stop responding.

Action

1. Correctly reinstall the memory module and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.136 0x206f0c00 Correctable memory error

Alarm Description

This alarm is raised when a correctable memory error occurs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The release latch for a memory module is not secured.
- There is a memory fault.

- A memory slot is stained.
- There are foreign objects on [CPU](#) pins.
- Pins of the socket on the mainboard are damaged.

Impact

The memory access efficiency may decrease, and services are affected.

Action

1. Identify the location of the corresponding memory module based on the alarm information, and check whether there is any foreign object in the memory slot.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the foreign objects and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. On the **System Information** page on the Web portal of the [BMC](#), check the CPU name corresponding to the memory module that raises the alarm.



Note

To enter the **System Information** page, select **System > System Information**.

5. Remove the CPU corresponding to the memory module that raises the alarm, and check whether there is any foreign object on the mainboard socket and CPU pin surfaces.
 - Yes → [Step 6](#).
 - No → [Step 7](#).
6. Remove the foreign objects, and then clean the CPU pin surfaces with cotton swabs dipped in anhydrous alcohol.
7. Reinstall the CPU and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
8. Contact VANTAGEO technical support.

2.137 0x206f0c01 Uncorrectable memory error

Alarm Description

This alarm is raised when an uncorrectable memory error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The release latch for a memory module is not secured.
- There is a memory fault.
- A memory slot is stained.
- There are foreign objects on [CPU](#) pins.
- Pins of the socket on the mainboard are damaged.

Impact

The system may fail to operate properly.

Action

1. Identify the location of the corresponding memory module based on the alarm information, and check whether there is any foreign object in the memory slot.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the foreign objects and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. On the **System Information** page on the Web portal of the [BMC](#), check the CPU name corresponding to the memory module that raises the alarm.



Note

To enter the **System Information** page, select **System > System Information**.

5. Remove the CPU corresponding to the memory module that raises the alarm, and check whether there is any foreign object on the mainboard socket and CPU pin surfaces.
 - Yes → [Step 6](#).
 - No → [Step 7](#).
6. Remove the foreign objects, and then clean the CPU pin surfaces with cotton swabs dipped in anhydrous alcohol.
7. Reinstall the CPU and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
8. Contact VANTAGEO technical support.

2.138 0x206f0c02 Memory parity error

Alarm Description

This alarm is raised when a memory parity error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- A memory module is not installed correctly.

Impact

The memory access efficiency may decrease, and services are affected.

Action

1. Identify the location of the corresponding memory module based on the alarm information, and check whether there is any foreign object in the memory slot.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the foreign objects and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.

- Yes → End.
 - No → [Step 4](#).
4. On the **System Information** page on the Web portal of the [BMC](#), check the CPU name corresponding to the memory module that raises the alarm.

**Note**

To enter the **System Information** page, select **System > System Information**.

5. Remove the CPU corresponding to the memory module that raises the alarm, and check whether there is any foreign object on the mainboard socket and CPU pin surfaces.
 - Yes → [Step 6](#).
 - No → [Step 7](#).
6. Remove the foreign objects, and then clean the CPU pin surfaces with cotton swabs dipped in anhydrous alcohol.
7. Reinstall the CPU and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
8. Contact VANTAGEO technical support.

2.139 0x206f0c03 Memory Scrub Failed(stuck bit)

Alarm Description

This alarm is raised when memory scrubbing fails.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The release latch for a memory module is not secured.
- A memory module is faulty.
- A memory slot is stained.
- There are foreign objects on [CPU](#) pins.
- Pins of the socket on the mainboard are damaged.

Impact

The memory access efficiency may decrease, and services are affected.

Action

1. Identify the location of the corresponding memory module based on the alarm information, and check whether there is any foreign object in the memory slot.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the foreign objects and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. On the **System Information** page on the Web portal of the [BMC](#), check the CPU name corresponding to the memory module that raises the alarm.



To enter the System Information page, select **System > System Information**.

5. Remove the CPU corresponding to the memory module that raises the alarm, and check whether there is any foreign object on the mainboard socket and CPU pin surfaces.
 - Yes → [Step 6](#).
 - No → [Step 7](#).
6. Remove the foreign objects, and then clean the CPU pin surfaces with cotton swabs dipped in anhydrous alcohol.
7. Reinstall the CPU and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 8](#).
8. Contact VANTAGEO technical support.

2.140 0x206f0c04 Memory Device Disabled

Alarm Description

This alarm is raised when a memory device is disabled.

Alarm Information

- Alarm severity: Inform

- Alarm type: Equipment Alarm

Alarm Cause

- There is a memory fault.
- There is a mainboard fault.

Impact

The system may fail to operate properly.

Action

1. Remove and reinstall the power cable to power off and then power on the server, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the memory module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.141 0x206f0c05 Correctable ECC logging limit reached

Alarm Description

This alarm is raised when the correctable memory error logs reach the upper limit.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The correctable memory error logs reach the upper limit.

Impact

The memory access efficiency may decrease, and services are affected.

Action

1. Clear the correctable memory error logs, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 2](#).
2. Transpose the memory module that raises the alarm and a normal memory module that does not raise any alarm, and check whether the alarm still exists on the memory module that raises the alarm.
 - Yes → [Step 3](#).
 - No → [Step 4](#).
 3. Replace the memory module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Contact VANTAGEO technical support.

2.142 0x206f0c07 Memory configuration error

Alarm Description

This alarm is raised when a memory configuration error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A memory module is not installed correctly.
- There is a memory fault.

Impact

The system performance may be degraded or the system may not be started properly.

Action

1. Identify the location of the corresponding memory module based on the alarm information, and check whether there is any foreign object in the memory slot.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the foreign objects and then power on the server. Check whether the alarm is cleared.

- Yes → End.
 - No → [Step 3](#).
3. Reinstall the memory module correctly and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
 4. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. Contact VANTAGEO technical support.

2.143 0x206f0c09 Memory automatically throttled

Alarm Description

This alarm is raised when memory throttling is automatically enabled.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The system reduces heat dissipation.
- The system limits power consumption.

Impact

The data processing speed of the system may decrease.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).

4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Check whether the power supply is normal.
 - Yes → [Step 9](#).
 - No → [Step 8](#).
 8. Remove the power supply fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 9](#).
 9. Replace the memory module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 10](#).
 10. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 11](#).
 11. Contact VANTAGEO technical support.

2.144 0x206f0c0a Memory critical overtemperature

Alarm Description

This alarm is raised when memory over-temperature occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.
- The air intake or air outlet is blocked.
- There is a memory fault.
- There is a mainboard fault.

Impact

The memory may not operate stably and services may be interrupted.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

-
- Yes → End.
 - No → [Step 7](#).

7. Check whether the air intake or air outlet of the server is blocked.
 - Yes → [Step 8](#).
 - No → [Step 9](#).
8. Remove the foreign objects, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 9](#).
9. Transpose the memory module that raises the alarm and a normal memory module that does not raise any alarm, and check whether the alarm still exists on the memory module that raises the alarm.
 - Yes → [Step 10](#).
 - No → [Step 11](#).
10. Replace the memory module that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 11](#).
11. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 12](#).
12. Contact VANTAGEO technical support.

2.145 0x206f0c0d Memory predictive failure

Alarm Description

This alarm is raised when there is an early warning for a memory error.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

There is a memory fault.

Impact

The system may be restarted or stop responding.

Action

1. Reinstall the memory module correctly and then power on the server. Check whether the alarm is cleared.

- No → [Step 2](#).
2. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
 3. Contact VANTAGEO technical support.

2.146 0x206f0c0e Memory isolation

Alarm Description

This alarm is raised when memory isolation is enabled.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The release latch for a memory module is not secured.
- A memory module is faulty.
- A memory slot is stained.
- There are foreign objects on [CPU](#) pins.
- Pins of the socket on the mainboard are damaged.

Impact

The memory module that raises the alarm cannot be used.

Action

1. Identify the location of the corresponding memory module based on the alarm information, and check whether there is any foreign object in the memory slot.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Remove the foreign objects and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the memory module that raises the alarm and then power on the server. Check whether the alarm is cleared.
 - Yes → End.

- No → [Step 4](#).
4. Install the memory module to another slot and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
 5. On the **System Information** page on the Web portal of the [BMC](#), check the CPU name corresponding to the memory module that raises the alarm.

**Note**

To enter the **System Information** page, select **System > System Information**.

6. Remove the CPU corresponding to the memory module that raises the alarm, and check whether there is any foreign object on the mainboard socket and CPU pin surfaces.
 - Yes → [Step 7](#).
 - No → [Step 8](#).
7. Remove the foreign objects, and then scrub the CPU pin surfaces with cotton swabs dipped in anhydrous alcohol.
8. Reinstall the CPU and then power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 9](#).
9. Contact VANTAGEO technical support.

2.147 0x22030701 The CPU microcode fails to be loaded

Alarm Description

This alarm is raised when the [CPU](#) microcode fails to be loaded.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The CPU microcode fails to be loaded.

Impact

The CPU cannot operate properly, and the system cannot be started.

Action

1. Upgrade the [BMC](#) and [BIOS](#) to the latest versions, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the CPU, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.148 0x226f0601 Pre-boot password violation - user password

Alarm Description

This alarm is raised when multiple incorrect password attempts are made during the login to the server.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The password for logging in to the server is incorrectly entered more than three times.

Impact

The server fails to operate properly.

Action

1. Restart the server and enter the correct password. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.149 0x226f0f00 System Firmware Error

Alarm Description

This alarm is raised when a system firmware error occurs.

Alarm Information

- Alarm level: Major

- Alarm type: Equipment Alarm

Alarm Cause

- No memory module is installed on the server.
- No memory is available on the server.

Impact

The system may fail to be started.

Action

1. Check whether any memory module is installed on the server.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Install the memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and then install again the memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.150 0x226f0f01 System Firmware Hang

Alarm Description

This alarm is raised when system firmware hangs.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A server memory initialization error occurs.
- A server hard disk initialization error occurs.

Impact

The system may fail to be started.

Action

1. Remove and then install again the memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the faulty memory module, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Remove and then install again the hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the hard disk, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.151 0x226f0f02 POST error - user authentication

Alarm Description

This alarm is raised when incorrect password attempts are made multiple times during user authentication.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The password for logging in to the server is incorrectly entered more than three times.

Impact

The server cannot operate properly.

Action

1. Restart the server and enter the correct password. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).

2. Contact VANTAGEO technical support.

2.152 0x226f1e00 No bootable media

Alarm Description

This alarm is raised when no bootable device is available for starting the server.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

There is no bootable device.

Impact

The server fails to be started.

Action

1. Restart the server and check whether an [OS](#) is installed.
 - Yes → End.
 - No → [Step 2](#).
2. Install an OS, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.153 0x226f2b01 Firmware or software change detected with associated Entity

Alarm Description

This alarm is raised when the [BIOS](#) firmware is upgraded.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The [BIOS](#) firmware is being upgraded.

Impact

None.

Action

None.

2.154 0x226f2b07 Software or F/W Change detected with associated Entity was successful

Alarm Description

This alarm is raised when the [BIOS](#) firmware upgrade is successful.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The [BIOS](#) firmware upgrade is successful.

Impact

None.

Action

None.

2.155 0x226f2c07 FRU communication lost

Alarm Description

This alarm is raised when the [FRU](#) communication is lost.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

FRU synchronization fails during [POST](#) process.

Impact

Fail to obtain FRU information.

Action

1. Check whether the FRU firmware version is correct.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Upgrade the FRU firmware, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.156 0x22ef2b07 Software or F/W Change detected with associated Entity was successful

Alarm Description

This alarm is raised when the [BIOS](#) firmware fails to be upgraded.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

- The upgrade is ongoing.
- An upgrade file fails to be opened.
- The device whose firmware is to be upgraded fails to be connected to.
- An error occurs in the firmware writing phase.
- The check on the value of the magic parameter in the version header fails.
- There is an error in the version header.
- There is an error in the version file.
- The [PCB](#) ID in the version header and the hardware mismatch.
- The Board ID in the version header and the hardware mismatch.
- The [BOM](#) ID in the version header and the hardware mismatch.
- The file size does not match the value specified in the version header.
- The firmware version does not match the value specified in the version header.
- The firmware type is not supported.
- The Board ID fails to be obtained from the hardware.
- The [EPLD](#) chip is damaged.
- There is a BIOS flash writing failure.

Impact

None.

Action

None.

2.157 0x236f1f00 A: boot completed

Alarm Description

This alarm is raised when the boot from a floppy disk is completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The boot from a floppy disk is completed.

Impact

None.

Action

None.

2.158 0x236f1f01 C: boot completed

Alarm Description

This alarm is raised when the boot from a hard disk is completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The boot from a hard disk is completed.

Impact

None.

Action

None.

2.159 0x236f1f02 PXE boot completed

Alarm Description

This alarm is raised when the boot from a network is completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The boot from a network is completed.

Impact

None.

Action

None.

2.160 0x236f1f03 Diagnostic boot completed

Alarm Description

This alarm is raised when the diagnostic startup is completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The diagnostic startup is completed.

Impact

None.

Action

None.

2.161 0x236f1f04 CD-ROM boot completed

Alarm Description

This alarm is raised when the boot from a [CD](#) or [DVD](#) is completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The boot from a CD or DVD is completed.

Impact

None.

Action

None.

2.162 0x236f1f05 ROM boot completed

Alarm Description

This alarm is raised when the boot from the ROM is completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The boot from the ROM is completed.

Impact

None.

Action

None.

2.163 0x236f1f06 boot completed - boot device not specified

Alarm Description

This alarm is raised when the boot is completed without a boot device specified.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The BIOS stops the POST process.

Impact

None.

Action

None.

2.164 0x236f1f07 Installation started

Alarm Description

This alarm is raised when the installation of an OS or VM starts.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The installation of an OS or VM starts.

Impact

None.

Action

None.

2.165 0x236f1f08 Installation completed

Alarm Description

This alarm is raised when the installation of an OS or VM is completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The installation of an OS or VM is completed.

Impact

None.

Action

None.

2.166 0x236f1f09 Installation aborted

Alarm Description

This alarm is raised when the installation of an OS or VM is stopped.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The installation of an OS or VM is stopped.

Impact

None.

Action

None.

2.167 0x236f1f0a Installation failed

Alarm Description

This alarm is raised when the installation of an OS or VM fails.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The installation of an OS or VM fails.

Impact

None.

Action

None.

2.168 0x2a6f0504 LAN Leash Lost

Alarm Description

This alarm is raised when the LAN service is interrupted.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The network cable is removed.
- A network device is not operating properly.

Impact

Data transmission may fail.

Action

1. Check whether the network cable is removed.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Connect the network cable properly, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.169 0x2e000011 BMC failed to synchronize NTP time

Alarm Description

This alarm is raised when the BMC fails to synchronize time with the [NTP](#) server.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The [BMC](#) cannot synchronize time with the NTP server.

Impact

The time of the BMC may be inaccurate.

Action

1. Check whether the BMC is disconnected from the NTP server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Fix the network connection issues, and then check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.170 0x2e6f1d00 BMC initiated by power up

Alarm Description

This alarm is raised when the [BMC](#) is started.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

BMC initiated by power up.

Impact

Services on the server may be interrupted.

Action

None.

2.171 0x2e6f1d01 BMC initiated by hard reset

Alarm Description

This alarm is raised when the [BMC](#) is restarted.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

BMC initiated by hard reset.

Impact

Services on the server may be interrupted.

Action

None.

2.172 0x2e6f2b01 Firmware or software change detected with associated Entity

Alarm Description

This alarm is raised when the [BMC](#) firmware is upgraded.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The BMC firmware is being upgraded.

Impact

None.

Action

None.

2.173 0x2e6f2b07 Software or F/W Change detected with associated Entity was successful

Alarm Description

This alarm is raised when the [BMC](#) firmware upgrade is successful.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The BMC firmware upgrade is successful.

Impact

None.

Action

None.

2.174 0x2eef2b07 Software or F/W Change detected with associated Entity was successful

Alarm Description

This alarm is raised when the [BMC](#) firmware fails to be upgraded.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

- The upgrade is ongoing.
- An upgrade file fails to be opened.
- The device whose firmware is to be upgraded fails to be connected to.
- An error occurs in the firmware writing phase.

- The check on the value of the magic parameter in the version header fails.
- There is an error in the version header.
- There is an error in the version file.
- The **PCB** ID in the version header and the hardware mismatch.
- The Board ID in the version header and the hardware mismatch.
- The **BOM** ID in the version header and the hardware mismatch.
- The file size does not match the value specified in the version header.
- The firmware version does not match the value specified in the version header.
- The firmware type is not supported.
- The Board ID fails to be obtained from the hardware.
- The **EPLD** chip is damaged.
- There is a BIOS flash writing failure.

Impact

None.

Action

None.

2.175 0x306f1304 PCI PERR

Alarm Description

This alarm is raised when a **PCI** parity error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A **PCIe** device is not operating properly.
- A PCIe slot is stained.

Impact

Services may be affected.

Action

1. On the **Current Alarms** tab on the Web portal of the **BMC**, check the position of the faulty PCIe device.

**Note**

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, and then power off the server.
3. Remove and reinstall the faulty PCIe device, and power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the PCIe device, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.176 0x306f1305 PCI SERR

Alarm Description

This alarm is raised when a [PCI](#) system error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A [PCIe](#) device is not operating properly.
- A PCIe slot is stained.

Impact

Services may be affected.

Action

1. On the **Current Alarms** tab on the Web portal of the [BMC](#), check the position of the faulty PCIe device.

**Note**

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, and then power off the server.

3. Remove and reinstall the faulty PCIe device, and power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the PCIe device, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.177 0x306f1307 Bus correctable error

Alarm Description

This alarm is raised when a correctable error occurs on the [PCI](#) bus.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A [PCIe](#) device is not operating properly.
- A PCIe slot is stained.

Impact

Services may be affected.

Action

1. On the **Current Alarms** tab on the Web portal of the [BMC](#), check the position of the faulty PCIe device.



To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, and then power off the server.
3. Remove and reinstall the faulty PCIe device, and power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the PCIe device, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.178 0x306f1308 Bus uncorrectable error

Alarm Description

This alarm is raised when an uncorrectable error occurs on the [PCI](#) bus.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A [PCIe](#) device is not operating properly.
- A PCIe slot is stained.

Impact

Services may be affected.

Action

1. On the **Current Alarms** tab on the Web portal of the [BMC](#), check the position of the faulty PCIe device.



Note

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, and then power off the server.
3. Remove and reinstall the faulty PCIe device, and power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the PCIe device, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.179 0x306f130a Bus fatal error

Alarm Description

This alarm is raised when a fatal error occurs on the [PCI](#) bus.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- A [PCIe](#) device is not operating properly.
- A PCIe slot is stained.

Impact

Services may be affected.

Action

1. On the **Current Alarms** tab on the Web portal of the [BMC](#), check the position of the faulty PCIe device.



To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, and then power off the server.
3. Remove and reinstall the faulty PCIe device, and power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the PCIe device, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.180 0x306f130b Bus degraded

Alarm Description

This alarm is raised when the [PCI](#) bus is degraded.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- A [PCIe](#) device is not operating properly.
- A PCIe slot is stained.

Impact

Services may be affected.

Action

1. On the **Current Alarms** tab on the Web portal of the [BMC](#), check the position of the faulty PCIe device.



Note

To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, and then power off the server.
3. Remove and reinstall the faulty PCIe device, and power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the PCIe device, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.181 0x306f130e PCIE EDPC Event

Alarm Description

This alarm is raised when an EDPC event occurs on the [PCI](#) bus.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

- A [PCIe](#) device is not operating properly.
- A PCIe slot is stained.

Impact

Services may be affected.

Action

1. On the **Current Alarms** tab on the Web portal of the [BMC](#), locate the faulty PCIe device based on the alarm information.



To enter the **Current Alarms** tab, select **Maintenance > Alarm & Event**.

2. Migrate the services from the server, and then power off the server.
3. Remove and reinstall the faulty PCIe device, and power on the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the PCIe device, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.182 0x306f131e PCIe mode changed

Alarm Description

This alarm is raised when the [PCIe](#) mode is changed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The [GPU](#) topology mode is changed through the [BIOS](#).

Impact

The system may be restarted.

Action

1. Wait until the server is successfully restarted, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.183 0x306f132e PCIe mode error

Alarm Description

This alarm is raised when a [PCIe](#) mode error occurs.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The [GPU](#) topology mode fails to be switched.

Impact

Some system functions may be unavailable.

Action

1. Restart the server, and check whether the alarm is reported again.
 - Yes → [Step 2](#).
 - No → End.
2. Contact VANTAGEO technical support.

2.184 0x37000001 Abnormal reading of ambient temperature

Alarm Description

This alarm is raised when the air inlet temperature fails to be obtained.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- No temperature sensor is installed at the air inlet.

- The temperature sensor at the air inlet is damaged.

Impact

The heat dissipation of the server may be affected.

Action

1. Check whether a temperature sensor is installed at the air inlet.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Install a temperature sensor at the air inlet, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
3. Replace the temperature sensor at the air inlet, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Contact VANTAGEO technical support.

2.185 0x37010100 Below lower minor threshold

Alarm Description

This alarm is raised when the temperature of an air intake is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

The ambient temperature of the equipment room is low.

Impact

The server cannot operate properly and services are affected.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).

2. Troubleshoot the abnormal ambient temperature of the equipment room, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.186 0x37010102 Below lower major threshold

Alarm Description

This alarm is raised when the temperature of an air intake is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The ambient temperature of the equipment room is low.

Impact

The server cannot operate properly and services are affected.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Troubleshoot the abnormal ambient temperature of the equipment room, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.187 0x37010104 Below lower critical threshold

Alarm Description

This alarm is raised when the temperature of an air intake is below the lower critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

The ambient temperature of the equipment room is low.

Impact

The server cannot operate properly and services are affected.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Troubleshoot the abnormal ambient temperature of the equipment room, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.188 0x37010107 Above upper minor threshold

Alarm Description

This alarm is raised when the temperature of an air intake is above the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation conditions of a server are poor.
- The fan units of a server are faulty, causing the fans to stop or operate improperly.

Impact

The data processing speed of the server may become slow and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5°C and 40°C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Troubleshoot the abnormal ambient temperature, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode, and check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.189 0x37010109 Above upper major threshold

Alarm Description

This alarm is raised when the temperature of an air intake is above the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation conditions of a server are poor.
- The fan units of a server are faulty, causing the fans to stop or operate improperly.

Impact

Some functions of the server may become unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5°C and 40°C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Troubleshoot the abnormal ambient temperature, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode, and check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

-
- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.190 0x3701010b Above upper critical threshold

Alarm Description

This alarm is raised when the temperature of an air intake is above the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation conditions of a server are poor.
- The fan units of a server are faulty, causing the fans to stop or operate improperly.

Impact

Some functions of the server may become unavailable or more serious faults may occur.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5°C and 40°C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Troubleshoot the abnormal ambient temperature, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode, and check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
- No → [Step 7](#).

7. Contact VANTAGEO technical support.

2.191 0x386f0f00 DPU soc post timeout

Alarm Description

This alarm is raised when the **SOC POST** of a **DPU** times out.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

- A DPU is suspended during power-on.
- The communication link is abnormal.

Impact

The host may fail to be started properly.

Action

1. Migrate the services from the server, and then power off the server.
2. Power on the server again, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.192 0x386f0f01 DPU bios post timeout

Alarm Description

This alarm is raised when the **BIOS POST** of a **DPU** times out.

Alarm Information

- Alarm severity: Inform

- Alarm type: Equipment Alarm

Alarm Cause

- A DPU is suspended during power-on.
- The communication link is abnormal.

Impact

The host may fail to be started properly.

Action

1. Migrate the services from the server, and then power off the server.
2. Power on the server again, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.193 0x386f0f02 Waitting DPU post start

Alarm Description

This alarm is raised when the [POST](#) of a [DPU](#) starts.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The server is powered on, and the POST starts.

Impact

None.

Action

None.

2.194 0x38ef0f02 Waitting DPU post success

Alarm Description

This alarm is raised when the [POST](#) of a [DPU](#) is successfully completed.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The server is powered on, and the POST is successfully completed.

Impact

None.

Action

None.

2.195 0x90000011 Shutdown due to high ambient temperature

Alarm Description

This alarm is raised when the server is shut down due to high temperature in the equipment room.

Alarm Information

- Alarm severity: Critical
- Alarm type: Environmental Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The air intake of the server is blocked.
- The heat dissipation condition of the server is poor.

Impact

The performance of components is affected, and thus the server cannot operate stably.

Action

1. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Lower the ambient temperature of the equipment room to the required temperature, and restart the server. Check whether the alarm is cleared after five minutes.

- Yes → End.
 - No → [Step 3](#).
3. Check whether the air intake of the server is blocked by foreign objects.
 - Yes → [Step 4](#).
 - No → [Step 5](#).
 4. Remove the foreign objects, and restart the server. Check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 5](#).
 5. Contact VANTAGEO technical support.

2.196 0x90000020 Left mounting ear not work well

Alarm Description

This alarm is raised when the left mounting ear function is invalid.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

The left mounting ear board is not installed or faulty.

Impact

Component parameters cannot be properly read, and the system may not operate properly.

Action

1. Check whether the cable of the left mounting ear board is properly connected.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Reconnect the cable of the left mounting ear board, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Replace the cable of the left mounting ear board or the left mounting ear board, and restart the server. Check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).

4. Contact VANTAGEO technical support.

2.197 0x91000012 RAID Card BBU temperature high

Alarm Description

This alarm is raised when the **BBU** temperature of the **RAID** controller card is high.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The BBU of the RAID controller card is faulty.

Impact

The power-off protection function for the cache data of the RAID controller card may be affected.

Action

1. Check whether the ambient temperature of the equipment room exceeds the required operating temperature for the server.
 - Yes → [Step 2](#).
 - No → [Step 3](#).
2. Lower the ambient temperature of the equipment room to the required temperature, and restart the server. Check whether the alarm is cleared after five minutes.
 - Yes → End.
 - No → [Step 3](#).
3. Power off the server and remove the power cable.
4. Replace the BBU of the RAID controller card, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.198 0x91000013 RAID Card BBU voltage low

Alarm Description

This alarm is raised when the **BBU** voltage of the **RAID** controller card is low.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The BBU of the RAID controller card is faulty.
- The voltage is low.

Impact

The power-off protection function for the cache data of the RAID controller card may be affected.

Action

1. Power off the server and remove the power cable.
2. Replace the BBU of the RAID controller card, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.199 0x92000011 PCIe netport link down

Alarm Description

This alarm is raised when the link of the [PCIe](#) network port is down.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The network cable of the PCIe network port is not connected or is loose.

Impact

Services may be affected.

Action

1. Check whether the link of the PCIe network port is down.
 - Yes → End.

- No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.200 0x92800011 PCIe netport link up

Alarm Description

This alarm is raised when the link of the [PCIe](#) network port is up.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The link of the PCIe network port is recovered.

Impact

Services are recovered.

Action

1. Check whether the link of the PCIe network port is recovered.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.201 0x96000011 Embedded netport link down

Alarm Description

This alarm is raised when the link of an onboard network port is down.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The network cable of an onboard network port is not connected or loose.

Impact

Services may be affected.

Action

1. Check whether the link of the onboard network port is down.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.202 0x96010100 Below upper minor threshold

Alarm Description

This alarm is raised when the temperature of an onboard **NIC** is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- An onboard NIC is faulty.

Impact

Low temperatures may cause the onboard NIC to operate improperly, affecting services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Troubleshoot the abnormal ambient temperature of the equipment room, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.203 0x96010102 Below lower major threshold

Alarm Description

This alarm is raised when the temperature of an onboard [NIC](#) is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- An onboard NIC is faulty.

Impact

Low temperatures may cause the onboard NIC to operate improperly, affecting services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Troubleshoot the abnormal ambient temperature of the equipment room, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.204 0x96010104 Below lower critical threshold

Alarm Description

This alarm is raised when the temperature of an onboard [NIC](#) is below the lower critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- An onboard NIC is faulty.

Impact

Low temperatures may cause the onboard NIC to operate improperly, affecting services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Troubleshoot the abnormal ambient temperature of the equipment room, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.205 0x96010107 Above upper minor threshold

Alarm Description

This alarm is raised when the temperature of an onboard [NIC](#) is above the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation conditions of a server are poor.
- The fan units of a server are faulty, causing the fans to stop or operate improperly.
- An onboard NIC is faulty.

Impact

High temperatures may cause the onboard NIC to operate improperly, affecting services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5°C and 40°C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Troubleshoot the abnormal ambient temperature of the equipment room, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Troubleshoot the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the onboard NIC that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.206 0x96010109 Above upper major threshold

Alarm Description

This alarm is raised when the temperature of an onboard [NIC](#) is above the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation conditions of a server are poor.
- The fan units of a server are faulty, causing the fans to stop or operate improperly.
- An onboard NIC is faulty.

Impact

High temperatures may cause the onboard NIC to operate improperly, affecting services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5°C and 40°C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Troubleshoot the abnormal ambient temperature of the equipment room, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Troubleshoot the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the onboard NIC that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.207 0x9601010b Above upper critical threshold

Alarm Description

This alarm is raised when the temperature of an onboard [NIC](#) is above the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.

- The heat dissipation conditions of a server are poor.
- The fan units of a server are faulty, causing the fans to stop or operate improperly.
- An onboard NIC is faulty.

Impact

High temperatures may cause the onboard NIC to operate improperly, affecting services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5°C and 40°C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Troubleshoot the abnormal ambient temperature of the equipment room, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Troubleshoot the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the onboard NIC that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.208 0x96800011 Embedded netport link up

Alarm Description

This alarm is raised when the link of an onboard network port is up.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The link of an onboard network port is recovered.

Impact

Services may be recovered.

Action

1. Check whether the link of the onboard network port is recovered.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.209 0x97000011 OCP netport link down

Alarm Description

This alarm is raised when the link of the [OCP](#) network port is down.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The network cable of the OCP network port is not connected or is loose.

Impact

Services may be affected.

Action

1. Check whether the link of the OCP network port is down.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.210 0x97800011 OCP netport link up

Alarm Description

This alarm is raised when the link of the [OCP](#) network port is up.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

The link of the OCP network port is recovered.

Impact

Services are recovered.

Action

1. Check whether the link of the OCP network port is recovered.
 - Yes → End.
 - No → [Step 2](#).
2. Contact VANTAGEO technical support.

2.211 0xa0010107 Above upper minor threshold

Alarm Description

This alarm is raised when the temperature is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.

Impact

Data processing speed may decrease, and data may be lost.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).

2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.

**Note**

To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.212 0xa0010109 Above upper major threshold

Alarm Description

This alarm is raised when the temperature is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, thus, stop operating or operate improperly.

Impact

Some system functions may be unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature between 5 °C and 40 °C, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode. Check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.213 0xa001010b Above upper critical threshold

Alarm Description

This alarm is raised when the temperature of the server is higher than the critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the rack is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.

Impact

Some functions of the system may be lost or a fault may occur.

Action

1. Wait for 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room is between 5 °C and 40 °C.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Take necessary measures to keep the temperature within the proper range, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. On the **Heat Dissipation** tab on the Web portal of the BMC, modify the heat dissipation mode, and check whether the alarm is cleared.



To enter the **Heat Dissipation** tab, select **System > Fan & Heat Dissipation**, and click **Heat Dissipation**.

- Yes → End.

- No → [Step 7](#).

7. Contact VANTAGEO technical support.

2.214 0xa0010200 Below lower minor threshold

Alarm Description

This alarm is raised when the voltage is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The voltage of the button cell on the mainboard is abnormal.
- There is a mainboard fault.

Impact

Some system functions may be unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the voltage of the button cell is too low.
 - Yes → [Step 3](#).
 - No → [Step 4](#).
3. Replace the button cell, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.215 0xa0010202 Below lower major threshold

Alarm Description

This alarm is raised when the voltage is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

- The voltage of the button cell on the mainboard is abnormal.
- There is a mainboard fault.

Impact

Some system functions may be unavailable or a fault of a higher level may occur.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the voltage of the button cell is too low.
 - Yes → [Step 3](#).
 - No → [Step 4](#).
3. Replace the button cell, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.216 0xa0010204 Below lower critical threshold

Alarm Description

This alarm is raised when the voltage is below the lower critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The voltage of the button cell on the mainboard is abnormal.
- There is a mainboard fault.

Impact

A circuit is partially damaged.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the voltage of the button cell is too low.
 - Yes → [Step 3](#).
 - No → [Step 4](#).
3. Replace the button cell, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 5](#).
5. Contact VANTAGEO technical support.

2.217 0xa0010207 Above upper minor threshold

Alarm Description

This alarm is raised when the voltage is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

There is a mainboard fault.

Impact

Some system functions may be unavailable.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the mainboard, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.218 0xa0010209 Above upper major threshold

Alarm Description

This alarm is raised when the voltage is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment Alarm

Alarm Cause

There is a mainboard fault.

Impact

Some system functions may be unavailable or a fault of a higher level may occur.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.219 0xa001020b Above upper critical threshold

Alarm Description

This alarm is raised when the voltage is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

There is a mainboard fault.

Impact

A circuit is partially damaged.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Replace the mainboard, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.220 0xe0010100 Below lower minor threshold

Alarm Description

This alarm is raised when the temperature of the [GPU](#) substrate is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The GPU substrate is faulty.

Impact

Low temperature may cause abnormal operation of the GPU substrate and affect services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.221 0xe0010102 Below lower major threshold

Alarm Description

This alarm is raised when the temperature of the [GPU](#) substrate is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The GPU substrate is faulty.

Impact

Low temperature may cause abnormal operation of the GPU substrate and affect services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.222 0xe0010104 Below lower critical threshold

Alarm Description

This alarm is raised when the temperature of the [GPU](#) substrate is below the lower critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.

- The GPU substrate is faulty.

Impact

Low temperature may cause abnormal operation of the GPU substrate and affect services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.223 0xe0010107 Above upper minor threshold

Alarm Description

This alarm is raised when the temperature of the [GPU](#) substrate is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.
- The GPU substrate is faulty.

Impact

High temperature may cause abnormal operation of the GPU substrate and affect services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).

2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the GPU substrate that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.224 0xe0010109 Above upper major threshold

Alarm Description

This alarm is raised when the temperature of the [GPU](#) substrate is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.
- The GPU substrate is faulty.

Impact

High temperature may cause abnormal operation of the GPU substrate and affect services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the GPU substrate that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.225 0xe001010b Above upper critical threshold

Alarm Description

This alarm is raised when the temperature of the [GPU](#) substrate is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.

- The GPU substrate is faulty.

Impact

High temperature may cause abnormal operation of the GPU substrate and affect services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the GPU substrate that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.226 0xe1010100 Below lower minor threshold

Alarm Description

This alarm is raised when the temperature of an accelerator card is below the lower minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The acceleration card is faulty.

Impact

Low temperature may cause abnormal operation of the accelerator card and affect services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.227 0xe1010102 Below lower major threshold

Alarm Description

This alarm is raised when the temperature of an accelerator card is below the lower major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The acceleration card is faulty.

Impact

Low temperature may cause abnormal operation of the accelerator card and affect services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).

- No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
 3. Contact VANTAGEO technical support.

2.228 0xe1010104 Below lower critical threshold

Alarm Description

This alarm is raised when the temperature of an accelerator card is below the lower critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is low.
- The acceleration card is faulty.

Impact

Low temperature may cause abnormal operation of the accelerator card and affect services.

Action

1. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 3](#).
 - No → [Step 2](#).
2. Remove the ambient temperature problem, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 3](#).
3. Contact VANTAGEO technical support.

2.229 0xe1010107 Above upper minor threshold

Alarm Description

This alarm is raised when the temperature of an accelerator card is higher than the upper minor alarm threshold.

Alarm Information

- Alarm severity: Minor
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.
- The acceleration card is faulty.

Impact

High temperature may cause abnormal operation of the accelerator card and affect services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the accelerator card that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.230 0xe1010109 Above upper major threshold

Alarm Description

This alarm is raised when the temperature of an accelerator card is higher than the upper major alarm threshold.

Alarm Information

- Alarm severity: Major
- Alarm type: Equipment alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.
- The acceleration card is faulty.

Impact

High temperature may cause abnormal operation of the accelerator card and affect services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).
5. Remove the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the accelerator card that raises the alarm, and check whether the alarm is cleared.

- Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.231 0xe101010b Above upper critical threshold

Alarm Description

This alarm is raised when the temperature of an accelerator card is higher than the upper critical alarm threshold.

Alarm Information

- Alarm severity: Critical
- Alarm type: Equipment Alarm

Alarm Cause

- The ambient temperature of the equipment room is high.
- The heat dissipation condition of the server is poor.
- The fans of the server are faulty, causing the fans to stop operating or operate improperly.
- The acceleration card is faulty.

Impact

High temperature may cause abnormal operation of the accelerator card and affect services.

Action

1. Wait 3 to 5 minutes, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 2](#).
2. Check whether the ambient temperature of the equipment room meets the normal operating temperature requirement.
 - Yes → [Step 4](#).
 - No → [Step 3](#).
3. Remove the ambient temperature problem, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 4](#).
4. Check whether the fans stop or their rotation speeds are too low due to a fault.
 - Yes → [Step 5](#).
 - No → [Step 6](#).

5. Remove the fan fault, and wait five minutes to check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 6](#).
6. Replace the accelerator card that raises the alarm, and check whether the alarm is cleared.
 - Yes → End.
 - No → [Step 7](#).
7. Contact VANTAGEO technical support.

2.232 0xfe000001 Trap test

Alarm Description

This alarm is raised when a trap test is conducted.

Alarm Information

- Alarm severity: Inform
- Alarm type: Equipment Alarm

Alarm Cause

A trap test is conducted.

Impact

None.

Action

None.

Chapter 3

Technical Support

Technical Support Website

You can go to the technical support website (<https://vantageo.com/>). On the website, you can search for electronic documents for a product through keywords (such as 2240-RE) and download them.

Technical Support Contact

If the problems cannot be solved through documents, you can contact VANTAGEO technical support in the following ways:

- support helpdesk: +91 18002669898
- support mailbox: support@vantageo.com
- On-site technical support: contact the local office of VANTAGEO PRIVATE LIMITED

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Glossary

AC

- Alternating Current

BBU

- Battery Backup Unit

BIOS

- Basic Input/Output System

BIST

- Built-In Self-Test

BIOS

- Basic Input/Output System

BMC

- Baseboard Management Controller

BOM

- Byte Order Mark

CD

- Compact Disk

CMOS

- Complementary Metal-Oxide-Semiconductor

CPU

- Central Processing Unit

DPU

- Data Processing Unit

DVD

- Digital Versatile Disc

EPLD

- Erasable Programmable Logic Device

FRU

- Field Replaceable Unit

GPU

- Graphics Processing Unit

KVM

- Keyboard, Video and Mouse

ME

- Management Engine

NIC

- Network Interface Card

NTP

- Network Time Protocol

OCP

- Open Computer Project

OS

- Operating System

PCB

- Printed Circuit Board

PCI

- Peripheral Component Interconnect

PCIe

- Peripheral Component Interconnect Express

POST

- Power-On Self-Test

PSU

- Power Supply Unit

PXE

- Preboot eXecution Environment

QoS

- Quality of Service

RAID

- Redundant Array of Independent Disks

ROM

- Read-Only Memory

SAS

- Serial Attached SCSI

SMART

- Self-Monitoring Analysis and Reporting Technology

SMS

- System Management Server

SOC

- System on Chip