

DHCPv4, Failover Time Skew

Operating Instructions



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1 Introduction

This instruction concerns alarm handling.

1.1 Alarm Description

This alarm is issued when time on the primary and secondary DHCPv4 servers is out of synchronization.

The possible alarm causes and the corresponding fault reasons, fault locations, and impacts are described in Page 1.

Table 1 Alarm Causes

Alarm Cause	Description	Fault Reason	Fault Location	Impact	Solution
Time on the primary and secondary DHCPv4 servers is out of synchronization.	The time difference between primary and secondary DHCPv4 servers should not more than 60 seconds. Otherwise, the failover mechanism between two servers cannot implement.	Timing within the servers is disrupted because of maintenance activities.	DHCPv4 server	The failover mechanism of DHCPv4 server cannot implement.	See Section 2.1 Synchronizing Time on page 5

Note: An alarm can appear as a result of the maintenance activity.

The alarm attributes are listed and explained in Table 2.

Table 2 Alarm Attributes

Attribute Name	Attribute Value
Major Type	193



Attribute Name	Attribute Value
Minor Type	872452
Managed Object Class	IpworksDhcpv4
Source	ManagedElement=<Node Name>,SystemFunctions=1,Fm=1,FmAlarmModel=ipworksDHCPv4,FmAlarmType=ipworksDhcpv4FailoverTimeSkew,HostName=<PL hostname>
Specific Problem	DHCPv4, Failover Time Skew
Event Type	ENVIRONMENTALALARM<read-only>
Probable Cause	x733TimingProblem(66)
Additional Text	This alarm is raised when the time on the primary and secondary is out of synchronization and the servers are not operating in failover mode.;uuid:<Product_UUID> ⁽¹⁾
Perceived Severity	Major

(1) <Product_UUID> is the universally unique identifier (UUID) of machine that generates the alarm. The value can be fetched from `/sys/devices/virtual/dmi/id/product_uuid` on the PL node.

1.2 Prerequisites

This section provides information on the documents, tools, and conditions that apply to the procedure.

1.2.1 Documents

Before starting this procedure, ensure that you have read the following documents:

- *System Safety Information*
- *Personal Health and Safety Information*
- *Fault Management*

1.2.2 Tools

No tools are required.



1.2.3

Conditions

No conditions.





2 Procedure

This section describes the procedure to clear this alarm.

2.1 Synchronizing Time

Do the following:

1. Check the alarm list, make sure the alarm "LOTIC Time Synchronization" also exists on the DHCPv4 server machine.
2. Try to clear the alarm "LOTIC Time Synchronization" first. For more information, refer to *LOTIC Time Synchronization*.
3. If the alarm "LOTIC Time Synchronization" is cleared successfully, this alarm should be cleared automatically.
4. Confirm that the alarm has ceased. If the alarm remains, consult the next level of maintenance support. Further actions are outside the scope of this instruction.