

# Radius AAA, Server Entered CUDB Overload Protection IPWorks

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## OPERATING INSTRUCTIONS

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# 1 Introduction

This instruction concerns alarm handling.

## 1.1 Alarm Description

The alarm is issued when a CUDB node is overloaded.

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

*Table 1 Alarm Causes*

Alarm Cause	Description	Fault Reason	Fault Location	Impact	Solution
AAA configuration is inappropriate.	The value of <code>busyRateThreshold</code> is set too low.	The attribute <code>busyRateThreshold</code> in the <code>MO CudbF</code> function is configured inappropriately.	AAA Server	AAA will enter cooperative load regulation status and discard part of incoming traffics.	Section 2.1 on page 3
CUDB node is overloaded.	This alarm is raised when the CUDB node is overloaded.	The incoming messages exceed the capacity of CUDB.	AAA Server		Section 2.2 on page 3

**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
Minor Type	868362
Managed Object Class	IpworksRadiusAAA



Attribute Name	Attribute Value
Source	ManagedElement=<Node Name>, SystemFunctions=1,Fm=1,FmA larmModel=ipworksRadiusAAA, FmAlarmType=ipworksRadiusAAAF EEnterOverloadProtection
Specific Problem	Radius AAA, Server Entered CUDB Overload Protection
Event Type	qualityOfServiceAlarm(11)
Probable Cause	x733ThresholdCrossed(351)
Additional Text	This alarm is issued when the CUDB Node %s Traffic is overloaded.;uuid:<Product_UUID> <sup>(1)</sup>
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 the following document has been read:

- *Fault Management*

### 1.2.2 Tools

Before starting this procedure, ensure that the following tools are available:

### 1.2.3 Conditions

Not applicable.

## 1.3 Related Information

Trademark information, typographic conventions, and definition and explanation of abbreviations and terminology can be found in the following documents:

- *Trademark Information*



- *Typographic Conventions*
- *Glossary of Terms and Acronyms*

## 2 Procedure

This section describes the procedure to follow to clear this alarm.

### 2.1 Configuring BusyRateThreshold

1. Log on to the ECLI interface.

```
# ssh <username>@<OAM IP Address> -t -s cli
```

2. Configure the busyRateThreshold.

```
>dn ManagedElement=<Node Name>,IpworksFunction=1,IpworksCommonRoot=1,DataBaseInfo=1,⇒
CudbManager=1,CudbFunction=1
(CudbFunction=1)> configure
(config-CudbFunction=1)> busyRateThreshold=<busyRate threshold>
(config-CudbFunction=1)> commit
(CudbFunction=1)> exit
```

**Note:** Set an appropriate value of *<busyRate threshold>* to satisfy your actual requirement. For more information about the attribute, refer to *busyRateThreshold* in *Managed Object Model (MOM)*.

3. Restart Radius Backend.

```
# ipw-ctr restart aaa_radius_backend <PL hostname>
```

### 2.2 Increasing CUDB Capacity

1. Check the error log. The CUDB traffic overload related message logged in the following file:

```
/cluster/storage/no-backup/ipworks/logs/<PL
hostname>/aaa_radius_backend.log
```

Example:

```
2017/05/04 11:02:07|a3backend|Error|Plugins|System 140651236677376 -
/localdisk/scratch/ipw_dev/ipworks/src/aaa/radius/cudb/cudb_api_scc/src/LDAPEventHandl
er.cpp:52 LDAPEventHandler::handlerEvent
sendEnterAlarm Radius FE enters overload protection status.
```



2. To clear the alarm, increase the CUDB capacity.
3. This alarm will be cleared automatically after the issue is fixed. Check the log to see whether the alarm is cleared.

**Example:**

```
2017/05/04 11:08:11|a3backend|Error|Plugins|System 140651236971325 -  
/localdisk/scratch/ipw_dev/ipworks/src/aaa/radius/cudb/cudb_api_scc/src/  
LDAPEventHandler.cpp:58 LDAPEventHandler::handlerEvent  
sendEnterAlarm Radius FE leaves overload protection status.
```

**Note:** The alarm status refreshes every 2 minutes.

4. If the alarm is still not cleared, consult the next level of maintenance support. Further actions are outside the scope of this instruction.