

# CSCF Domain Routing Function Memory Limit Reached

## Call Session Control Function

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### OPERATING INSTRUCTIONS

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CSCF Domain Routing Function Memory Limit Reached



# 1 Introduction

This instruction concerns alarm handling.

## 1.1 Alarm Description

The alarm `CSCF Domain Routing Function Memory Limit Reached` is raised when more memory than maximally allowed is used for the synchronization of the target configuration set, identified by the attribute `cscfDomainRoutingSelectedConfig`.

At initialization of the alarm, the requested Domain Routing Function (DRF) synchronization is ended and the DRF traffic handling is resumed using the existing active configuration set identified by the attribute `cscfDomainRoutingActiveConfig`. The alarm therefore does not affect traffic handling.

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
CSCF DRF memory limit has been reached.	CSCF DRF synchronization activities have crossed the maximal allowed memory limit, causing synchronization to end.	CSCF DRF memory limit was crossed, causing synchronization to stop.	The configuration or analysis tables of the modified DRF is larger than what the memory is dimensioned for, which is identified by the attribute <code>cscfDomainRoutingSelectedConfig</code> .	When the alarm is raised, the requested DRF synchronization is ended and the DRF traffic handling is resumed using the existing active configuration set identified by the attribute <code>cscfDomainRoutingActiveConfig</code> . The alarm therefore does not affect traffic handling.

**Note:** An alarm can appear as a result of 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	6684706
Managed Object Class	<code>CscfDomainRoutingApplication</code>
Managed Object Instance	<code>ManagedElement=&lt;node_name&gt;, CscfFunction=1, CscfDomainRoutingApplication=CscfDomainRouting</code>
Specific Problem	CSCF Domain Routing Function Memory Limit Reached
Event Type	<code>processingErrorAlarm (4)</code>



Attribute Name	Attribute Value
Probable Cause	x733ConfigurationOrCustomization Error (307)
Additional Text	Memory limit is reached when building Domain Routing runtime Data.
Perceived Severity	minor (5)

## 1.2 Prerequisites

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

### 1.2.1 Documents

This procedure references the following documents:

- *CSCF Configuration Management*
- *Managed Object Model (MOM)*

### 1.2.2 Tools

No tools are required.

### 1.2.3 Conditions

No conditions.







## 2 Procedure

This section describes the procedure to follow when this alarm is received.

To correct the failure, reduce the amount of configuration data to be synchronized. When the configuration data has been modified, the alarm is cleared at the next successful synchronization of the tables, that is, when the `cscfDomainRoutingSyncConfig` is set to `true` again.

### 2.1 Analyze the Alarm

Do the following at the maintenance center:

1. Evaluate the possibility to remove or optimize the Domain Routing Matching Tables or reusing Domain Routing Results. If this is not possible, consider to enforce the needed changes in the external DNS server.

### 2.2 Actions to Clear the Alarm

Do the following:

1. Check the parameter `cscfDomainRoutingEnabled` and verify if the DRF application is enabled or not. If the CSCF application is not supposed to be used, disable it by setting `cscfDomainRoutingEnabled = false`.

**Note:** Disabling the DRF after receiving the alarm does not clear the alarm.

2. Reduce the amount of configuration data in the affected configuration set, as specified by the `cscfDomainRoutingSelectedConfig` attribute.
3. The alarm ceases at the next successful synchronization of a new configuration set (identified by the attribute `cscfDomainRoutingSelectedConfig`) after setting the attribute `cscfDomainRoutingSyncConfig` to `true`. For more information about the configuration management parameters, refer to *Managed Object Model (MOM)* and *CSCF Configuration Management*.
4. Confirm that the alarm ceases after the configuration are corrected.
5. If the alarm is not ceased, consult the next level of maintenance support. Further actions are outside the scope of this instruction.
6. Job is completed.