

CSCF, End-Of-Selection Analysis Internal Loop Detected

Call Session Control Function

OPERATING INSTRUCTIONS

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CSCF, End-Of-Selection Analysis Internal Loop Detected



1 Introduction

This instruction concerns alarm handling.

1.1 Alarm Description

The alarm `CSCF, End-Of-Selection Analysis Internal Loop Detected` is raised when more than 25 Next End-Of-Selection (EOS) table entries have been traversed in succession for a session. At initialization of the alarm, EOS analysis for this session is ended and normal CSCF error handling takes place.

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 End of Selection Analysis Internal Loop Detected.	EOS Analysis internal loop detection: More than 25 Next EOS table entries have been traversed in succession for a given session in the CSCF.	The received SIP error response included in the alarm is causing more than 25 next EOS table hops, which means that there were no matching profiles in the current configuration of the EOS Analysis when starting in the indicated EOS case. This is regarded as being a loop in the analysis.	The attribute <code>cscfEosCaseTableEntryId</code> is placed in the <code>MOC CscfEosCaseTableEntry</code> describes the name of the EOS where the first non-matching profile was encountered.	The traffic cases causing this alarm will be managed according to normal procedures, that is as if the EOS analysis is not invoked.

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	6684703
Managed Object Class	CscfEosApplication
Managed Object Instance	ManagedElement=<node_name>, CscfFunction=1, CscfEosApplication=CscfEos
Specific Problem	CSCF, End-Of-Selection Analysis Internal Loop Detected
Event Type	processingErrorAlarm (4)
Probable Cause	x733ConfigurationOrCustomization Error (307)
Additional Text	<ul style="list-style-type: none">• Name of the last EOS Case where the first non-matching profile was encountered• Last received SIP error response status code• Last received SIP error response Reason header <p>Format: [initial entry in the table] <SIP Error code>, Reason=<value>; cause=<value>.</p> <p>(1)</p>
Perceived Severity	major (4)

(1) Example: eos_tc056,480, Reason: SIP; cause=480

1.2 Prerequisites

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

1.2.1 Documents

This instruction references the following document:

- *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.

Do the following:

1. Check the Additional Text field of the alarm to find out:
 - a. the name of the EOS case where the first non-matching profile was encountered
 - b. the last received SIP error response status code
 - c. the Reason header
2. Locate the EOS case name in `cscfEosCaseTableEntryId`.
3. Compare the referenced `cscfEosMatchProfileTableEntryId` parameters to the received SIP error response status code and Reason header. If it was intended that a match would have occurred, modify the `cscfEosMatchProfileTableEntryId` parameters accordingly. If no match was intended, repeat this action with the defined next EOS case, defined by `cscfEosNextEosCaseName`.
4. Repeat Step 3 until a match is obtained or remove the indicated EOS case name from the application configuration.

Note: If the intention is that the received SIP error code and reason header shall not result in any alternative routing, introduce a match of the combination and then specify the result **exit** for that `cscfEosCaseRouteName` to avoid alarms for this traffic scenario.
5. The alarm is ceased manually by setting parameter `cscfEosInternalLoopAlarmReset` to **true**. For more information about the configuration management parameters, refer to *Managed Object Model (MOM)* and *CSCF Configuration Management*.
6. Confirm that the alarm has ceased. If the alarm is not ceased, consult the next level of maintenance support. Further actions are outside the scope of this instruction.
7. Job is completed.