



# Diameter Result Code Specific Counters on Gy Interface

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## Feature Summary and Revision History

### Summary Data

Applicable Product(s) or Functional Area	SaMOG
Applicable Platform(s)	<ul style="list-style-type: none"><li>• ASR 5500</li><li>• ASR 5700</li><li>• VPC-DI</li><li>• VPC-SI</li></ul>
Feature Default	Enabled - Always-on
Related Changes in This Release	Not applicable
Related Documentation	<ul style="list-style-type: none"><li>• <i>SaMOG Administration Guide</i></li><li>• <i>Statistics and Counters Reference, StarOS Release Guide</i></li></ul>

**Revision History**

Revision Details	Release
This release supports additional Diameter error code counters for Transient Failures [4XXX] and Permanent Failures [5XXX] on SaMOG (web-auth) service through P-GW LBO module.	21.21

## Feature Description

SaMOG supports Diameter result code counters for all failure transactions and diameter interfaces on SaMOG (Web-auth) services through P-GW LBO module on various StarOS platforms ASR5500/ASR5700.

The following set of result code specific counters are supported for the responses received from the OCS (Online Charging System), on Gy interface. DCCA (Diameter Credit Control Application) is the protocol used on the Gy interface.

*Table 1: Result Code Specific Counters*

Error Category	Result Code	Result Code Value
Transient Failures [4XXX]	DIAMETER_END_USER_SERVICE_DENIED	4010
Permanent Failures [5XXX]	DIAMETER_RATING_FAILED	5031

## Monitoring and Troubleshooting

### Show Commands and Outputs

#### show active-charging credit-control statistics

```
show active-charging credit-control statistics {group <group_name> | {server <server_name> | ip-address <ip-address>}}
```

This output of this command displays the result code specific counters for initial and update CCA responses, in addition to aggregate of CCA response messages.

*Table 2:*

Field	Description
<b>CCA Initial Message Stats</b>	
Result Code 4012	This counter shows the number of responses received for CCA-I messages with a Diameter Result-Code=4012.

Field	Description
Result Code 5031	This counter shows the number of responses received for CCA-I messages with a Diameter Result-Code=5031.
<b>CCA Update Message Stats</b>	
Result Code 4012	This counter shows the number of responses received for CCA-U messages with a Diameter Result-Code=4012.
Result Code 5031	This counter shows the number of responses received for CCA-U message with a Diameter Result-Code=5031.
<b>CCA Result Code 4xxx Stats</b>	
Result Code 4010	This counter shows the number of responses received for CCA messages with a Diameter Result-Code=4010.
<b>CCA Result Code 5xxx Stats</b>	
Result Code 5031	This counter shows the number of responses received for CCA messages with a Diameter Result-Code = 5031.

## Bulk Statistics

### System Schema Statistics

The following bulk statistics in the SaMOG schema support this feature.

*Table 3: System-level Schema Statistics*

Reason No.	Description	Data Type
<b>Init:</b>		
cca-init-4010-rc	<p><b>Name:</b> DIAMETER_END_USER_SERVICE_DENIED (4010)</p> <p><b>Description:</b> The total number of responses received for diameter end user service denied messages.</p> <p><b>Type:</b> Counter</p>	String
cca-init-5031-rc	<p><b>Name:</b> DIAMETER_RATING_FAILED (5031)</p> <p><b>Description:</b> The total number of responses received for diameter rating failed messages.</p> <p><b>Type:</b> Counter</p>	String

Reason No.	Description	Data Type
<b>Update:</b>		
cca-updt-4010-rc	<p><b>Name:</b> DIAMETER_END_USER_SERVICE_DENIED (4010)</p> <p><b>Description:</b> The total number of responses received for diameter end user service denied messages</p> <p><b>Type:</b>Counter</p>	String
cca-updt-5031-rc	<p><b>Name:</b>DIAMETER_RATING_FAILED (5031)</p> <p><b>Description:</b> The total number of responses received for diameter rating failed messages.</p> <p><b>Type:</b> Counter</p>	String
<b>Aggregate</b>		
cca-4010-rc	<p><b>Name:</b> DIAMETER_END_USER_SERVICE_DENIED (4010)</p> <p><b>Description:</b> The aggregate number of responses received for diameter end user service denied messages.</p> <p><b>Type:</b>Counter</p>	String
cca-5031-rc	<p><b>Name:</b> DIAMETER_RATING_FAILED (5031)</p> <p><b>Description:</b> The aggregate number of responses received for diameter rating failed messages.</p> <p><b>Type:</b>Counter</p>	String