Diameter Result Code Specific Counters on Gy Interface

Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	SaMOG
Applicable Platform(s)	• ASR 5500 • VPC-DI • VPC-SI
Feature Default	Enabled - Always-on
Related Changes in This Release	Not applicable
Related Documentation	• *SaMOG Administration Guide* • *Statistics and Counters Reference, StarOS Release Guide*

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 Local Breakout (LBO) module on various StarOS platforms ASR5500/ASR5700.

The following set of result code-specific counters is 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: Result Code Specific Counters

Field	Description
CCA Initial Message Stats	
Result Code 4012	This counter shows the number of responses received for CCA-I messages with a Diameter Result-Code=4012.
Result Code 5031	This counter shows the number of responses received for CCA-I messages with a Diameter Result-Code=5031.
CCA Update Message Stats	
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.

Field	Description
CCA Result Code 4xxx Stats	
Result Code 4010	This counter shows the number of responses received for CCA messages with a Diamter Result-Code=4010.
CCA Result Code 5xxx Stats	
Result Code 5031	This counter shows the number of responses received for CCA messages with a Diamter 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
Init:		
cca-init-4010-rc	**Name:** DIAMETER_END_USER_SERVICE_DENIED (4010) **Description:** The total number of responses received for diameter end-user service denied messages. **Type:** Counter	String
cca-init-5031-rc	**Name:** DIAMETER_RATING_FAILED (5031) **Description: The** total number of responses received for diameter rating failed messages. **Type:** Counter	String
Update:		
cca-updt-4010-rc	**Name:** DIAMETER_END_USER_SERVICE_DENIED (4010) **Description:** The total number of responses received for diameter end-user service denied messages **Type: Counter**	String

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