



Bulk Statistics Changes Quick Reference

This chapter identifies bulk statistics changes added to, modified for, or deprecated from the StarOS 21.21 software release.



Important

For more information regarding bulk statistics identified in this section, see the latest version of the *BulkstatStatistics_document.xls* spreadsheet supplied with the release.

Bulk statistics changes for 21.21 include:

- [New Bulk Statistics, on page 1](#)
- [Modified Bulk Statistics, on page 5](#)
- [Deprecated Bulk Statistics, on page 5](#)

New Bulk Statistics

This section identifies new bulk statistics and new bulk statistic schemas introduced in release 21.21.

Diameter Accounting Schema

The following bulk statistics are added in the diameter-acct schema in support of the Diameter Error Code Counters feature.

Bulk Statistics	Description
acct-result-unable-to-deliver	Shows the total number of Diameter account results with a result code 3002, which cannot be delivered to the destination.
acct-result-too-busy	Shows the total number of Diameter account results with a result code 3004, which cannot be allowed for the requested service, when specific servers are requested for.
acct-result-loop-detected	Shows the total number of Diameter account results with a result code 3005. This Diameter error code is received when an agent detected a loop while trying to get the message to the intended recipient.

Bulk Statistics	Description
acct-result-invl-d-hdr-bits	Shows the total number of Diameter account results with a result code 3008 for an invalid header bits request received. A request received could be related to bits in the diameter header, which is set either to an invalid combination or to a value that is inconsistent with the definition of the Command Code.
acct-result-invl-d-avp-bits	Shows the total number of Diameter account results with a result code 3009. The request received includes an AVP whose flag bits are set to an unrecognized value or that is inconsistent with the AVP definition.
acct-result-authen-rej	Shows the total number of Diameter account results with a result code 4001. The results received is for the user authentication failure due to an invalid password used by the user.
acct-result-out-of-space	Shows the total number of Diameter account results with a result code 4002. The results received is for a Diameter node but was unable to perform stable commit due to a temporary lack of space.
acct-exp-result-user-unknown	Shows the total number of Diameter account expected results with a result code 5001 for the unknown user error.
acct-result-unk-sess-id	Shows the total number of Diameter account results with a result code 5002 that contains unknown session Identifiers.
acct-result-author-rej	Shows the total number of Diameter account results with a result code 5003 where, the user requests could not be authorized.
acct-exp-result-roaming-not-allowed	Shows the total number of Diameter expected account results with a result code 5004 for which roaming calls are not allowed.
acct-result-missing-avp	Shows the total number of Diameter account results with a result code 5005 that does not contain an AVP.
acct-result-resrc-exceed	Shows the total number of account results with result code 5006 that cannot be authorized because the user has already expended allowed resources.
acct-result-unable-to-comply	Shows the total number of account results with result code 5012 rejected for unspecified reasons.
acct-result-user-unknown	Shows the total number of account results with a result code 5030 that contains unknown users.

Bulk Statistics	Description
acct-exp-result-no-wlan-subs	Shows the total number of expected account results with a result code 5041 for no VLAN Sub band.

Diameter Authentication Schema

The following bulk statistics are added in the diameter-auth schema in support of the Diameter Error Code Counters feature.

Bulk Statistics	Description
auth-result-unable-to-deliver	Shows the total number of Diameter authentication/authorization results with a result code 3002 that cannot be delivered to the destination.
auth-result-too-busy	Shows the total number of Diameter authentication/authorization results with a result code 3004 that cannot be allowed for the requested service, when specific servers are requested for.
auth-result-loop-detected	Shows the total number of Diameter authentication/authorization results for a result code 3005. This Diameter error code is received when an agent detects a loop while trying to get the message to the intended recipient.
auth-result-Invld-hdr-bits	Shows the total number of Diameter authentication/authorization results with a result code 3008 for an invalid header bits request received. A request received could be related to bits in the diameter header, which is set either to an invalid combination or to a value that is inconsistent with the definition of the Command Code.
auth-result-Invld-avp-bits	Shows the total number of Diameter authentication/authorization results received with a result code 3009. The request received includes an AVP whose flag bits are set to an unrecognized value or that is inconsistent with the AVP definition.
auth-result-authen-rej	Shows the total number of Diameter authentication/authorization results with a result code 4001. This Diameter error code is received for the user authentication failure due to an invalid password used by the user.
auth-result-out-of-space	Shows the total number of Diameter authentication/authorization results with a result code 4002 for a Diameter node received but was unable to perform stable commit due to a temporary lack of space.

Bulk Statistics	Description
auth-exp-result-user-unknown	Shows the total number of Diameter authentication/authorization expected results with a result 5001 for the unknown user error.
auth-result-unk-sess-id	Shows the total number of Diameter authentication/authorization results with a result code 5002 that contains unknown session Identifiers.
auth-result-author-rej	Shows the total number of Diameter authentication/authorization results with a result code 5003 where, the user requests could not be authorized.
auth-exp-result-roaming-not-allowed	Shows the total number of Diameter authentication/authorization expected results with a result code 5004 for which roaming calls are not allowed.
auth-result-missing-avp	Shows the total number of Diameter authentication/authorization results with a result code 5005 that does not contain an AVP.
auth-result-resrc-exceed	Shows the total number of Diameter authentication/authorization results with a result code 5006 that cannot be authorized because the user has already expended allowed resources.
auth-result-unable-to-comply	Shows the total number of Diameter authentication/authorization results with a result code 5012 rejected for unspecified reasons.
auth-result-user-unknown	Shows the total number of Diameter authentication/authorization results with a result code 5030 that contains unknown users.
auth-exp-result-no-wlan-subs	Shows the total number of expected Diameter authentication/authorization results with a result code 5041 for no VLAN Sub band.

System Schema

The following bulk statistics in the SaMOG schema supports Diameter Result Code specific counters on Gy interface.

Bulk Statistics	Description
cca-init-4010-rc	Shows the total number of responses received for diameter end user service denied messages.
cca-init-5031-rc	Shows the total number of responses received for diameter rating failed messages.

Bulk Statistics	Description
cca-updt-4010-rc	Shows the total number of responses received for diameter end user service denied messages.
cca-updt-5031-rc	Shows the total number of responses received for diameter rating failed messages.
cca-5031-rc	Shows the aggregate number of responses received for diameter rating failed messages.

Modified Bulk Statistics

None in this release.

Deprecated Bulk Statistics

None in this release.

