Supported Counters and Error Statistics

This appendix lists the supported counters and error statistics used in
Cisco Prime Access Registrar (Prime Access Registrar).

This appendix contains the following sections:

Interface-Level KPI Counters

Prime Access Registrar allows you to view the Diameter peer statistics at the interface level. Applicable
statistics will be listed for interfaces such as SWm, S6b, STa, SWx, NASREQ, and so on.

The following is a sample CLI that shows the Diameter statistics for a client with interface level
counters:

Note The generic statistics counters are also displayed along with the interface-level counters.

Diameter Peer statistics for client: client1, 10.81.79.79 With Origin-Host 10.81.79.79, And port 4994

```
cdbpPeerStatsState = Closed
cdbpPeerStatsACRsIn = 0
cdbpPeerStatsACRsOut = 0
cdbpPeerStatsACAsIn = 0
cdbpPeerStatsACAsOut = 0
cdbpPeerStatsCERsIn = 0
cdbpPeerStatsCERsOut = 0
cdbpPeerStatsCEAsIn = 0
cdbpPeerStatsCEAsOut = 0
cdbpPeerStatsDWRsIn = 0
cdbpPeerStatsDWRsOut = 0
cdbpPeerStatsDWAsIn = 0
cdbpPeerStatsDWAsOut = 0
cdbpPeerStatsDPRsIn = 0
cdbpPeerStatsDPRsOut = 0
cdbpPeerStatsDPAsIn = 0
cdbpPeerStatsDPAsOut = 0
cdbpPeerStatsRedirectEvents = 0
cdbpPeerStatsAccDupRequests = 0
cdbpPeerStatsMalformedReqsts = 0
```

```
cdbpPeerStatsAccsNotRecorded = 0
cdbpPeerStatsWhoInitDisconnect = 0
cdbpPeerStatsAccRetrans = 0
cdbpPeerStatsTotalRetrans= 0
cdbpPeerStatsAccPendReqstsOut = 0
cdbpPeerStatsAccReqstsDropped = 0
cdbpPeerStatsHByHDropMessages = 0
cdbpPeerStatsEToEDupMessages= 0
cdbpPeerStatsUnknownTypes= 0
cdbpPeerStatsProtocolErrors = 0
cdbpPeerStatsTransientFailures = 0
cdbpPeerStatsPermanentFailures = 0
cdbpPeerStatsDWCurrentStatus= 0
cdbpPeerStatsTransportDown = 0
cdbpPeerStatsTimeoutConnAtmpts = 0
cdbpPeerStatsFailedCERs = 0
cdbpPeerStatsFailedDWRs = 0
cdbpPeerStatsFailedDPRs = 0
```

Stats Interface = SWm
```
cdbpPeerStatsASAsOut = 0
cdbpPeerStatsRARsOut = 0
cdbpPeerStatsRAAsIn = 0
cdbpPeerStatsRAAsOut = 0
cdbpPeerStatsRstRARsOut = 0
cdbpPeerStatsRstRAAsIn = 0
cdbpPeerStatsSTRsIn= 0
cdbpPeerStatsSTRsOut = 0
cdbpPeerStatsSTAsIn = 0
cdbpPeerStatsSTAsOut = 0
cdbpPeerStatsASRsIn= 0
cdbpPeerStatsASRsOut= 0
cdbpPeerStatsASAsIn = 0
cdbpPeerStatsDERsIn = 0
cdbpPeerStatsDERsOut = 0
cdbpPeerStatsDEAsIn = 0
cdbpPeerStatsDEAsOut = 0
cdbpPeerStatsAARsIn = 0
cdbpPeerStatsAARsOut = 0
cdbpPeerStatsAAAsIn = 0
cdbpPeerStatsAAAsOut = 0
cdbpPeerStatsMARsIn = 0
cdbpPeerStatsMARsOut = 0
cdbpPeerStatsMAAsIn = 0
cdbpPeerStatsMAAsOut = 0
cdbpPeerStatsSARsIn = 0
cdbpPeerStatsSARsOut = 0
cdbpPeerStatsSAAsIn = 0
cdbpPeerStatsSAAsOut = 0
cdbpPeerStatsUDRsIn = 0
cdbpPeerStatsUDRsOut = 0
cdbpPeerStatsUDAsIn = 0
cdbpPeerStatsUDAsOut = 0
cdbpPeerStatsRTRsIn = 0
cdbpPeerStatsRTRsOut = 0
cdbpPeerStatsRTAsIn = 0
cdbpPeerStatsRTAsOut = 0
cdbpPeerStatsPPRsIn = 0
cdbpPeerStatsPPRsOut = 0
cdbpPeerStatsPPAsIn = 0
cdbpPeerStatsPPAsOut = 0
cdbpPeerStatsFailedAARs = 0
cdbpPeerStatsFailedDERs = 0
cdbpPeerStatsFailedMARs = 0
```

```
cdbpPeerStatsFailedSARs = 0
cdbpPeerStatsFailedPPRs = 0
cdbpPeerStatsFailedRARs = 0
cdbpPeerStatsRstFailedRARs = 0
cdbpPeerStatsFailedRTRs = 0
cdbpPeerStatsFailedASRs = 0
cdbpPeerStatsFailedSTRs = 0
cdbpPeerStatsMultiRoundDEAs = 0
cdbpPeerStatsFailedUDRs = 0
```

Stats Interface = S6b
```
cdbpPeerStatsASAsOut = 0
cdbpPeerStatsRARsOut = 0
cdbpPeerStatsRAAsIn = 0
cdbpPeerStatsRAAsOut = 0
cdbpPeerStatsRstRARsOut = 0
cdbpPeerStatsRstRAAsIn = 0
cdbpPeerStatsSTRsIn= 0
cdbpPeerStatsSTRsOut = 0
cdbpPeerStatsSTAsIn = 0
cdbpPeerStatsSTAsOut = 0
cdbpPeerStatsASRsIn= 0
cdbpPeerStatsASRsOut= 0
cdbpPeerStatsASAsIn = 0
cdbpPeerStatsDERsIn = 0
cdbpPeerStatsDERsOut = 0
cdbpPeerStatsDEAsIn = 0
cdbpPeerStatsDEAsOut = 0
cdbpPeerStatsAARsIn = 0
cdbpPeerStatsAARsOut = 0
cdbpPeerStatsAAAsIn = 0
cdbpPeerStatsAAAsOut = 0
cdbpPeerStatsMARsIn = 0
cdbpPeerStatsMARsOut = 0
cdbpPeerStatsMAAsIn = 0
cdbpPeerStatsMAAsOut = 0
cdbpPeerStatsSARsIn = 0
cdbpPeerStatsSARsOut = 0
cdbpPeerStatsSAAsIn = 0
cdbpPeerStatsSAAsOut = 0
cdbpPeerStatsUDRsIn = 0
cdbpPeerStatsUDRsOut = 0
cdbpPeerStatsUDAsIn = 0
cdbpPeerStatsUDAsOut = 0
cdbpPeerStatsRTRsIn = 0
cdbpPeerStatsRTRsOut = 0
cdbpPeerStatsRTAsIn = 0
cdbpPeerStatsRTAsOut = 0
cdbpPeerStatsPPRsIn = 0
cdbpPeerStatsPPRsOut = 0
cdbpPeerStatsPPAsIn = 0
cdbpPeerStatsPPAsOut = 0
cdbpPeerStatsFailedAARs = 0
cdbpPeerStatsFailedDERs = 0
cdbpPeerStatsFailedMARs = 0
cdbpPeerStatsFailedSARs = 0
cdbpPeerStatsFailedPPRs = 0
cdbpPeerStatsFailedRARs = 0
cdbpPeerStatsRstFailedRARs = 0
cdbpPeerStatsFailedRTRs = 0
cdbpPeerStatsFailedASRs = 0
cdbpPeerStatsFailedSTRs = 0
cdbpPeerStatsMultiRoundDEAs = 0
cdbpPeerStatsFailedUDRs = 0
```

```
Stats Interface = STa
cdbpPeerStatsASAsOut = 0
cdbpPeerStatsRARsOut = 0
cdbpPeerStatsRAAsIn = 0
cdbpPeerStatsRAAsOut = 0
cdbpPeerStatsRstRARsOut = 0
cdbpPeerStatsRstRAAsIn = 0
cdbpPeerStatsSTRsIn= 0
cdbpPeerStatsSTRsOut = 0
cdbpPeerStatsSTAsIn = 0
cdbpPeerStatsSTAsOut = 0
cdbpPeerStatsASRsIn= 0
cdbpPeerStatsASRsOut= 0
cdbpPeerStatsASAsIn = 0
cdbpPeerStatsDERsIn = 0
cdbpPeerStatsDERsOut = 0
cdbpPeerStatsDEAsIn = 0
cdbpPeerStatsDEAsOut = 0
cdbpPeerStatsAARsIn = 0
cdbpPeerStatsAARsOut = 0
cdbpPeerStatsAAAsIn = 0
cdbpPeerStatsAAAsOut = 0
cdbpPeerStatsMARsIn = 0
cdbpPeerStatsMARsOut = 0
cdbpPeerStatsMAAsIn = 0
cdbpPeerStatsMAAsOut = 0
cdbpPeerStatsSARsIn = 0
cdbpPeerStatsSARsOut = 0
cdbpPeerStatsSAAsIn = 0
cdbpPeerStatsSAAsOut = 0
cdbpPeerStatsUDRsIn = 0
cdbpPeerStatsUDRsOut = 0
cdbpPeerStatsUDAsIn = 0
cdbpPeerStatsUDAsOut = 0
cdbpPeerStatsRTRsIn = 0
cdbpPeerStatsRTRsOut = 0
cdbpPeerStatsRTAsIn = 0
cdbpPeerStatsRTAsOut = 0
cdbpPeerStatsPPRsIn = 0
cdbpPeerStatsPPRsOut = 0
cdbpPeerStatsPPAsIn = 0
cdbpPeerStatsPPAsOut = 0
cdbpPeerStatsFailedAARs = 0
cdbpPeerStatsFailedDERs = 0
cdbpPeerStatsFailedMARs = 0
cdbpPeerStatsFailedSARs = 0
cdbpPeerStatsFailedPPRs = 0
cdbpPeerStatsFailedRARs = 0
cdbpPeerStatsRstFailedRARs = 0
cdbpPeerStatsFailedRTRs = 0
cdbpPeerStatsFailedASRs = 0
cdbpPeerStatsFailedSTRs = 0
cdbpPeerStatsMultiRoundDEAs = 0
cdbpPeerStatsFailedUDRs = 0
```

For remote server statistics, the interface is listed as a combination of the source (front-end) and destination (back-end) interfaces e.g. SWx-SWm. In certain cases, where there is a failure of requests initiated from HSS, there will not be any front-end interface. Those requests are grouped under SWx interface.

For details about the Diameter peer and remote server statistics, see the *Cisco Prime Access Registrar 9.3 User Guide*.

Sample CLI configuration is given below:

```
--> cd /r/remoteServers/

[ //localhost/Radius/RemoteServers ]
Entries 1 to 1 from 1 total entries
Current filter: <all>

remserver/

--> dia-stats /r/RemoteServers/remserver

Diameter Remote server statistics for: remserver, 10.81.78.165, port 3869
active = FALSE
cDiaRemSvrRTTAverage = 0ms
cDiaRemSvrRTTDeviation = 0ms
cDiaRemSvrServerType = Diameter
cDiaRemSvrTotalRequestsPending = 0
cDiaRemSvrTotalRequestsOutstanding = 0
cDiaRemSvrTotalRequestsAcknowledged = 0
cDiaRemSvrStatsState = Closed
cDiaRemSvrStatsACRsIn = 0
cDiaRemSvrStatsACRsOut = 0
cDiaRemSvrStatsACAsIn = 0
cDiaRemSvrStatsACAsOut = 0
cDiaRemSvrStatsCERsIn = 0
cDiaRemSvrStatsCERsOut = 11
cDiaRemSvrStatsCEAsIn = 0
cDiaRemSvrStatsCEAsOut = 0
cDiaRemSvrStatsDWRsIn = 0
cDiaRemSvrStatsDWRsOut = 0
cDiaRemSvrStatsDWAsIn = 0
cDiaRemSvrStatsDWAsOut = 0
cDiaRemSvrStatsDPRsIn = 0
cDiaRemSvrStatsDPRsOut = 0
cDiaRemSvrStatsDPAsIn = 0
cDiaRemSvrStatsDPAsOut = 0
cDiaRemSvrStatsRedirectEvents = 0
cDiaRemSvrStatsAccDupRequests = 0
cDiaRemSvrStatsMalformedRequests = 0
cDiaRemSvrStatsAccsNotRecorded = 0
cDiaRemSvrStatsWhoInitDisconnect = 2
cDiaRemSvrStatsAccRetrans = 0
cDiaRemSvrStatsTotalRetrans= 0
cDiaRemSvrStatsAccPendRequestsOut = 0
cDiaRemSvrStatsAccReqstsDropped = 0
cDiaRemSvrStatsHByHDropMessages = 0
cDiaRemSvrStatsEToEDupMessages= 0
cDiaRemSvrStatsUnknownTypes= 0
cDiaRemSvrStatsProtocolErrors = 0
cDiaRemSvrStatsTransientFailures = 0
cDiaRemSvrStatsPermanentFailures = 0
cDiaRemSvrStatsDWCurrentStatus= 2
cDiaRemSvrStatsTransportDown = 1
cDiaRemSvrStatsTimeoutConnAtmpts = 0
cDiaRemSvrStatsFailedCERs = 11
cDiaRemSvrStatsFailedDWRs = 0
cDiaRemSvrStatsFailedDPRs = 0

Stats for Interface= SWx-SWm
cDiaRemSvrStatsASRsIn= 0
cDiaRemSvrStatsASRsOut= 0
```

```
cDiaRemSvrStatsASAsIn = 0
cDiaRemSvrStatsASAsOut = 0
cDiaRemSvrStatsRARsIn = 0
cDiaRemSvrStatsRARsOut = 0
cDiaRemSvrStatsRAAsIn = 0
cDiaRemSvrStatsRAAsOut = 0
cDiaRemSvrStatsSTRsIn= 0
cDiaRemSvrStatsSTRsOut = 0
cDiaRemSvrStatsSTAsIn = 0
cDiaRemSvrStatsSTAsOut = 0
cDiaRemSvrStatsMARsIn = 0
cDiaRemSvrStatsMARsOut = 0
cDiaRemSvrStatsMAAsIn= 0
cDiaRemSvrStatsMAAsOut = 0
cDiaRemSvrStatsSARsIn = 0
cDiaRemSvrStatsSARsOut = 0
cDiaRemSvrStatsSAAsIn = 0
cDiaRemSvrStatsSAAsOut = 0
cDiaRemSvrStatsUDRsIn = 0
cDiaRemSvrStatsUDRsOut = 0
cDiaRemSvrStatsUDAsIn = 0
cDiaRemSvrStatsUDAsOut = 0
cDiaRemSvrStatsRTRsIn= 0
cDiaRemSvrStatsRTRsOut = 0
cDiaRemSvrStatsRTAsIn = 0
cDiaRemSvrStatsRTAsOut = 0
cDiaRemSvrStatsPPRsIn= 0
cDiaRemSvrStatsPPRsOut = 0
cDiaRemSvrStatsPPAsIn = 0
cDiaRemSvrStatsPPAsOut = 0
cDiaRemSvrStatsDERsIn= 0
cDiaRemSvrStatsDERsOut = 0
cDiaRemSvrStatsDEAsIn = 0
cDiaRemSvrStatsDEAsOut = 0
cDiaRemSvrStatsAARsIn= 0
cDiaRemSvrStatsAARsOut = 0
cDiaRemSvrStatsAAAsIn = 0
cDiaRemSvrStatsAAAsOut = 0
cDiaRemSvrStatsFailedAARs = 0
cDiaRemSvrStatsFailedDERs = 0
cDiaRemSvrStatsFailedMARs = 0
cDiaRemSvrStatsFailedSARs = 0
cDiaRemSvrStatsFailedPPRs = 0
cDiaRemSvrStatsFailedRARs = 0
cDiaRemSvrStatsFailedRTRs = 0
cDiaRemSvrStatsFailedASRs = 0
cDiaRemSvrStatsFailedSTRs = 0
cDiaRemSvrStatsFailedUDRs = 0

Stats for Interface= SWx-S6b
cDiaRemSvrStatsASRsIn= 0
cDiaRemSvrStatsASRsOut= 0
cDiaRemSvrStatsASAsIn = 0
cDiaRemSvrStatsASAsOut = 0
cDiaRemSvrStatsRARsIn = 0
cDiaRemSvrStatsRARsOut = 0
cDiaRemSvrStatsRAAsIn = 0
cDiaRemSvrStatsRAAsOut = 0
cDiaRemSvrStatsSTRsIn= 0
cDiaRemSvrStatsSTRsOut = 0
cDiaRemSvrStatsSTAsIn = 0
cDiaRemSvrStatsSTAsOut = 0
cDiaRemSvrStatsMARsIn = 0
cDiaRemSvrStatsMARsOut = 0
```

```
cDiaRemSvrStatsMAAsIn= 0
cDiaRemSvrStatsMAAsOut = 0
cDiaRemSvrStatsSARsIn = 0
cDiaRemSvrStatsSARsOut = 0
cDiaRemSvrStatsSAAsIn = 0
cDiaRemSvrStatsSAAsOut = 0
cDiaRemSvrStatsUDRsIn = 0
cDiaRemSvrStatsUDRsOut = 0
cDiaRemSvrStatsUDAsIn = 0
cDiaRemSvrStatsUDAsOut = 0
cDiaRemSvrStatsRTRsIn= 0
cDiaRemSvrStatsRTRsOut = 0
cDiaRemSvrStatsRTAsIn = 0
cDiaRemSvrStatsRTAsOut = 0
cDiaRemSvrStatsPPRsIn= 0
cDiaRemSvrStatsPPRsOut = 0
cDiaRemSvrStatsPPAsIn = 0
cDiaRemSvrStatsPPAsOut = 0
cDiaRemSvrStatsDERsIn= 0
cDiaRemSvrStatsDERsOut = 0
cDiaRemSvrStatsDEAsIn = 0
cDiaRemSvrStatsDEAsOut = 0
cDiaRemSvrStatsAARsIn= 0
cDiaRemSvrStatsAARsOut = 0
cDiaRemSvrStatsAAAsIn = 0
cDiaRemSvrStatsAAAsOut = 0
cDiaRemSvrStatsFailedAARs = 0
cDiaRemSvrStatsFailedDERs = 0
cDiaRemSvrStatsFailedMARs = 0
cDiaRemSvrStatsFailedSARs = 0
cDiaRemSvrStatsFailedPPRs = 0
cDiaRemSvrStatsFailedRARs = 0
cDiaRemSvrStatsFailedRTRs = 0
cDiaRemSvrStatsFailedASRs = 0
cDiaRemSvrStatsFailedSTRs = 0
cDiaRemSvrStatsFailedUDRs = 0
```

Stats for Interface= SWx-STa

```
cDiaRemSvrStatsASRsIn= 0
cDiaRemSvrStatsASRsOut= 0
cDiaRemSvrStatsASAsIn = 0
cDiaRemSvrStatsASAsOut = 0
cDiaRemSvrStatsRARsIn = 0
cDiaRemSvrStatsRARsOut = 0
cDiaRemSvrStatsRAAsIn = 0
cDiaRemSvrStatsRAAsOut = 0
cDiaRemSvrStatsSTRsIn= 0
cDiaRemSvrStatsSTRsOut = 0
cDiaRemSvrStatsSTAsIn = 0
cDiaRemSvrStatsSTAsOut = 0
cDiaRemSvrStatsMARsIn = 0
cDiaRemSvrStatsMARsOut = 0
cDiaRemSvrStatsMAAsIn= 0
cDiaRemSvrStatsMAAsOut = 0
cDiaRemSvrStatsSARsIn = 0
cDiaRemSvrStatsSARsOut = 0
cDiaRemSvrStatsSAAsIn = 0
cDiaRemSvrStatsSAAsOut = 0
cDiaRemSvrStatsUDRsIn = 0
cDiaRemSvrStatsUDRsOut = 0
cDiaRemSvrStatsUDAsIn = 0
cDiaRemSvrStatsUDAsOut = 0
cDiaRemSvrStatsRTRsIn= 0
cDiaRemSvrStatsRTRsOut = 0
```

```
cDiaRemSvrStatsRTAsIn = 0
cDiaRemSvrStatsRTAsOut = 0
cDiaRemSvrStatsPPRsIn= 0
cDiaRemSvrStatsPPRsOut = 0
cDiaRemSvrStatsPPAsIn = 0
cDiaRemSvrStatsPPAsOut = 0
cDiaRemSvrStatsDERsIn= 0
cDiaRemSvrStatsDERsOut = 0
cDiaRemSvrStatsDEAsIn = 0
cDiaRemSvrStatsDEAsOut = 0
cDiaRemSvrStatsAARsIn= 0
cDiaRemSvrStatsAARsOut = 0
cDiaRemSvrStatsAAAsIn = 0
cDiaRemSvrStatsAAAsOut = 0
cDiaRemSvrStatsFailedAARs = 0
cDiaRemSvrStatsFailedDERs = 0
cDiaRemSvrStatsFailedMARs = 0
cDiaRemSvrStatsFailedSARs = 0
cDiaRemSvrStatsFailedPPRs = 0
cDiaRemSvrStatsFailedRARs = 0
cDiaRemSvrStatsFailedRTRs = 0
cDiaRemSvrStatsFailedASRs = 0
cDiaRemSvrStatsFailedSTRs = 0
cDiaRemSvrStatsFailedUDRs = 0
```

Stats for Interface= SH
```
cDiaRemSvrStatsASRsIn= 0
cDiaRemSvrStatsASRsOut= 0
cDiaRemSvrStatsASAsIn = 0
cDiaRemSvrStatsASAsOut = 0
cDiaRemSvrStatsRARsIn = 0
cDiaRemSvrStatsRARsOut = 0
cDiaRemSvrStatsRAAsIn = 0
cDiaRemSvrStatsRAAsOut = 0
cDiaRemSvrStatsSTRsIn= 0
cDiaRemSvrStatsSTRsOut = 0
cDiaRemSvrStatsSTAsIn = 0
cDiaRemSvrStatsSTAsOut = 0
cDiaRemSvrStatsMARsIn = 0
cDiaRemSvrStatsMARsOut = 0
cDiaRemSvrStatsMAAsIn= 0
cDiaRemSvrStatsMAAsOut = 0
cDiaRemSvrStatsSARsIn = 0
cDiaRemSvrStatsSARsOut = 0
cDiaRemSvrStatsSAAsIn = 0
cDiaRemSvrStatsSAAsOut = 0
cDiaRemSvrStatsUDRsIn = 0
cDiaRemSvrStatsUDRsOut = 0
cDiaRemSvrStatsUDAsIn = 0
cDiaRemSvrStatsUDAsOut = 0
cDiaRemSvrStatsRTRsIn= 0
cDiaRemSvrStatsRTRsOut = 0
cDiaRemSvrStatsRTAsIn = 0
cDiaRemSvrStatsRTAsOut = 0
cDiaRemSvrStatsPPRsIn = 0
cDiaRemSvrStatsPPRsOut = 0
cDiaRemSvrStatsPPAsIn = 0
cDiaRemSvrStatsPPAsOut = 0
cDiaRemSvrStatsDERsIn= 0
cDiaRemSvrStatsDERsOut = 0
cDiaRemSvrStatsDEAsIn = 0
cDiaRemSvrStatsDEAsOut = 0
cDiaRemSvrStatsAARsIn= 0
cDiaRemSvrStatsAARsOut = 0
```

```
cDiaRemSvrStatsAAAsIn = 0
cDiaRemSvrStatsAAAsOut = 0
cDiaRemSvrStatsFailedAARs = 0
cDiaRemSvrStatsFailedDERs = 0
cDiaRemSvrStatsFailedMARs = 0
cDiaRemSvrStatsFailedSARs = 0
cDiaRemSvrStatsFailedPPRs = 0
cDiaRemSvrStatsFailedRARs = 0
cDiaRemSvrStatsFailedRTRs = 0
cDiaRemSvrStatsFailedASRs = 0
cDiaRemSvrStatsFailedSTRs = 0
cDiaRemSvrStatsFailedUDRs = 0
```

Error Statistics (error-stats)

Prime Access Registrar aggregates the error counters in case of failure of requests. Error statistic is the list of error codes with the number of failures for each command. These statistics are also listed at the interface level.

To enable error-stats, you must place the **errorstats.xml** file in the following location:

/opt/CSCOar/conf

The xml file must contain the error codes to be monitored. Error statistics will be displayed only for the error codes mentioned in the xml file.

A sample errorstats.xml file content is shown below:

```
[root@cpar-rhel-93 conf]# cat errorstats.xml <?xml version="1.0"?> <Application>
<Command>
<ErrorCode Name="Diameter-Command-Unsupported">3001</ErrorCode>
<ErrorCode Name="Diameter-Unable-To-Deliver">3002</ErrorCode>
<ErrorCode Name="Diameter-Realm-Not-Served">3003</ErrorCode>
<ErrorCode Name="Diameter-Too-Busy">3004</ErrorCode>
<ErrorCode Name="Diameter-Loop-Detected">3005</ErrorCode>
<ErrorCode Name="Diameter-Redirect-Indication">3006</ErrorCode>
<ErrorCode Name="Diameter-Application-Unsupported">3007</ErrorCode>
<ErrorCode Name="Diameter-Invalid-Hdr-Bits">3008</ErrorCode>
<ErrorCode Name="Diameter-Invalid-Avp-Bits">3009</ErrorCode>
<ErrorCode Name="Diameter-Unknown-Peer">3010</ErrorCode>
<ErrorCode Name="Diameter-Authentication-Rejected">4001</ErrorCode>
<ErrorCode Name="Diameter-Out-Of-Space">4002</ErrorCode>
<ErrorCode Name="Diameter-Election-Lost">4003</ErrorCode>
<ErrorCode Name="Diameter-Error-User-Unknown">5001</ErrorCode>
<ErrorCode Name="Diameter-Unknown-Session-Id">5002</ErrorCode>
<ErrorCode Name="Diameter-Error-Identity-Not-Registered">5003</ErrorCode>
<ErrorCode Name="Diameter-Error-Roaming-Not-Allowed">5004</ErrorCode>
<ErrorCode Name="Diameter-Error-Identity-Already-Registered">5005</ErrorCode>
<ErrorCode Name="Diameter-Unable-To-Comply">5012</ErrorCode>
<ErrorCode Name="Diameter-Error-User-No-Non-3gpp-Subscription">5450</ErrorCode>
<ErrorCode Name="Diameter-Error-User-No-Apn-Subscription">5451</ErrorCode>
<ErrorCode Name="Diameter-Error-Rat-Type-Not-Allowed">5452</ErrorCode>
<ErrorCode Name="Diameter-Error-Late-Overlapping-Request">5453</ErrorCode>
<ErrorCode Name="Diameter-Error-Timed-Out-Request">5454</ErrorCode>
<ErrorCode Name="Diameter-Error-Illegal-Equipment">5554</ErrorCode>
</Command>
</Application>
```

Following is the sample CLI of the error statistics:

```
--> error-stats /r/RemoteServers/remserver SWx-SWm
```

```
Diameter Error Stats for RemoteServer : remserver, Interface: SWx-SWm

Command Code = CER
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = DWR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = DPR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
```

```
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = AAR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = DER
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
```

```
                    Diameter-Error-Roaming-Not-Allowed = 0
                    Diameter-Error-Identity-Already-Registered = 0
                    Diameter-Unable-To-Comply = 0
                    Diameter-Error-User-No-Non-3gpp-Subscription = 0
                    Diameter-Error-User-No-Apn-Subscription = 0
                    Diameter-Error-Rat-Type-Not-Allowed = 0
                    Diameter-Error-Late-Overlapping-Request = 0
                    Diameter-Error-Timed-Out-Request = 0
                    Diameter-Error-Illegal-Equipment = 0

                    Command Code = MAR
                    Diameter-Command-Unsupported = 0
                    Diameter-Unable-To-Deliver = 0
                    Diameter-Realm-Not-Served = 0
                    Diameter-Too-Busy = 0
                    Diameter-Loop-Detected = 0
                    Diameter-Redirect-Indication = 0
                    Diameter-Application-Unsupported = 0
                    Diameter-Invalid-Hdr-Bits = 0
                    Diameter-Invalid-Avp-Bits = 0
                    Diameter-Unknown-Peer = 0
                    Diameter-Authentication-Rejected = 0
                    Diameter-Out-Of-Space = 0
                    Election-Lost = 0
                    Diameter-Error-User-Unknown = 0
                    Diameter-Unknown-Session-Id = 0
                    Diameter-Error-Identity-Not-Registered = 0
                    Diameter-Error-Roaming-Not-Allowed = 0
                    Diameter-Error-Identity-Already-Registered = 0
                    Diameter-Unable-To-Comply = 0
                    Diameter-Error-User-No-Non-3gpp-Subscription = 0
                    Diameter-Error-User-No-Apn-Subscription = 0
                    Diameter-Error-Rat-Type-Not-Allowed = 0
                    Diameter-Error-Late-Overlapping-Request = 0
                    Diameter-Error-Timed-Out-Request = 0
                    Diameter-Error-Illegal-Equipment = 0

                    Command Code = SAR
                    Diameter-Command-Unsupported = 0
                    Diameter-Unable-To-Deliver = 0
                    Diameter-Realm-Not-Served = 0
                    Diameter-Too-Busy = 0
                    Diameter-Loop-Detected = 0
                    Diameter-Redirect-Indication = 0
                    Diameter-Application-Unsupported = 0
                    Diameter-Invalid-Hdr-Bits = 0
                    Diameter-Invalid-Avp-Bits = 0
                    Diameter-Unknown-Peer = 0
                    Diameter-Authentication-Rejected = 0
                    Diameter-Out-Of-Space = 0
                    Election-Lost = 0
                    Diameter-Error-User-Unknown = 0
                    Diameter-Unknown-Session-Id = 0
                    Diameter-Error-Identity-Not-Registered = 0
                    Diameter-Error-Roaming-Not-Allowed = 0
                    Diameter-Error-Identity-Already-Registered = 0
                    Diameter-Unable-To-Comply = 0
                    Diameter-Error-User-No-Non-3gpp-Subscription = 0
                    Diameter-Error-User-No-Apn-Subscription = 0
                    Diameter-Error-Rat-Type-Not-Allowed = 0
                    Diameter-Error-Late-Overlapping-Request = 0
                    Diameter-Error-Timed-Out-Request = 0
                    Diameter-Error-Illegal-Equipment = 0
```

```
Command Code = PPR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = RAR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = RstRAR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
```

```
                    Diameter-Unknown-Peer = 0
                    Diameter-Authentication-Rejected = 0
                    Diameter-Out-Of-Space = 0
                    Election-Lost = 0
                    Diameter-Error-User-Unknown = 0
                    Diameter-Unknown-Session-Id = 0
                    Diameter-Error-Identity-Not-Registered = 0
                    Diameter-Error-Roaming-Not-Allowed = 0
                    Diameter-Error-Identity-Already-Registered = 0
                    Diameter-Unable-To-Comply = 0
                    Diameter-Error-User-No-Non-3gpp-Subscription = 0
                    Diameter-Error-User-No-Apn-Subscription = 0
                    Diameter-Error-Rat-Type-Not-Allowed = 0
                    Diameter-Error-Late-Overlapping-Request = 0
                    Diameter-Error-Timed-Out-Request = 0
                    Diameter-Error-Illegal-Equipment = 0

                    Command Code = RTR
                    Diameter-Command-Unsupported = 0
                    Diameter-Unable-To-Deliver = 0
                    Diameter-Realm-Not-Served = 0
                    Diameter-Too-Busy = 0
                    Diameter-Loop-Detected = 0
                    Diameter-Redirect-Indication = 0
                    Diameter-Application-Unsupported = 0
                    Diameter-Invalid-Hdr-Bits = 0
                    Diameter-Invalid-Avp-Bits = 0
                    Diameter-Unknown-Peer = 0
                    Diameter-Authentication-Rejected = 0
                    Diameter-Out-Of-Space = 0
                    Election-Lost = 0
                    Diameter-Error-User-Unknown = 0
                    Diameter-Unknown-Session-Id = 0
                    Diameter-Error-Identity-Not-Registered = 0
                    Diameter-Error-Roaming-Not-Allowed = 0
                    Diameter-Error-Identity-Already-Registered = 0
                    Diameter-Unable-To-Comply = 0
                    Diameter-Error-User-No-Non-3gpp-Subscription = 0
                    Diameter-Error-User-No-Apn-Subscription = 0
                    Diameter-Error-Rat-Type-Not-Allowed = 0
                    Diameter-Error-Late-Overlapping-Request = 0
                    Diameter-Error-Timed-Out-Request = 0
                    Diameter-Error-Illegal-Equipment = 0

                    Command Code = ASR
                    Diameter-Command-Unsupported = 0
                    Diameter-Unable-To-Deliver = 0
                    Diameter-Realm-Not-Served = 0
                    Diameter-Too-Busy = 0
                    Diameter-Loop-Detected = 0
                    Diameter-Redirect-Indication = 0
                    Diameter-Application-Unsupported = 0
                    Diameter-Invalid-Hdr-Bits = 0
                    Diameter-Invalid-Avp-Bits = 0
                    Diameter-Unknown-Peer = 0
                    Diameter-Authentication-Rejected = 0
                    Diameter-Out-Of-Space = 0
                    Election-Lost = 0
                    Diameter-Error-User-Unknown = 0
                    Diameter-Unknown-Session-Id = 0
                    Diameter-Error-Identity-Not-Registered = 0
                    Diameter-Error-Roaming-Not-Allowed = 0
                    Diameter-Error-Identity-Already-Registered = 0
                    Diameter-Unable-To-Comply = 0
```

```
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = STR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0

Command Code = UDR
Diameter-Command-Unsupported = 0
Diameter-Unable-To-Deliver = 0
Diameter-Realm-Not-Served = 0
Diameter-Too-Busy = 0
Diameter-Loop-Detected = 0
Diameter-Redirect-Indication = 0
Diameter-Application-Unsupported = 0
Diameter-Invalid-Hdr-Bits = 0
Diameter-Invalid-Avp-Bits = 0
Diameter-Unknown-Peer = 0
Diameter-Authentication-Rejected = 0
Diameter-Out-Of-Space = 0
Election-Lost = 0
Diameter-Error-User-Unknown = 0
Diameter-Unknown-Session-Id = 0
Diameter-Error-Identity-Not-Registered = 0
Diameter-Error-Roaming-Not-Allowed = 0
Diameter-Error-Identity-Already-Registered = 0
Diameter-Unable-To-Comply = 0
Diameter-Error-User-No-Non-3gpp-Subscription = 0
Diameter-Error-User-No-Apn-Subscription = 0
Diameter-Error-Rat-Type-Not-Allowed = 0
Diameter-Error-Late-Overlapping-Request = 0
Diameter-Error-Timed-Out-Request = 0
Diameter-Error-Illegal-Equipment = 0
```

Error Statistics (error-stats)