

Troubleshoot Populating nodeID Field in SGW CDR with Value 1

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Introduction

This document describes how to address the issue when `nodeID` field in Serving Gateway (SGW) Charging Data Record (CDR) is populated with value 1.

Problem

The `nodeID` field in the SGW CDR is sometimes populated with the value 1, whereas it is expected to follow the `ndddSTRING` format. In this format, `n` represents the Session Manager (SessMgr) restart counter (ranging from 0 to 7), `ddd` is the SessMgr instance generating the CDR, and `STRING` is a string of 1 to 16 characters.

Analysis

The issue appears to be caused by the SGW CDR being triggered by a 4-digit AAA Manager (AAAmgr) and SessMgr instance, while the current implementation supports an AAAmgr/SessMgr instance range of 0-998 for the `nodeID` field in the SGW CDR. The log snippet captures an event where the AAAmgr instance 1046 initiates a GTPP Data Record Transfer Request Message, sending CDR data from 10.10.10.10:49999 to 10.10.10.20:3386, with `nodeID` set to 1.

```
<#root>
```

```
2024-Jul-17+08:30:12.322 [gtp 52037 info] [1/2/14746 <
```

```
aaamgr:1046
```

```
> gr_gtp_proxy.c:494] [context: Ga, contextID: 4] [software internal security system syslog]
```

```
AAAmgr instance 1046 sending request with 1 GCDRs to aaaproxy
```

```
<<<<OUTBOUND From aaaproxy:1 proxy_handler.c:1001 (Callid 716bbe13) 08:30:12:322 Eventid:66001(7)  
CDR Tx from 10.10.10.10:49999 to 10.10.10.20:3386 (241) PDU-dict=custom24
```

```
Message Type: GTPP_DATA_RECORD_TRANSFER_REQUEST_MSG (0xf0)
```

```
CDR ELEMENTS FOLLOW
```

```
recordType
```

```
SGWRECORD
```

```
...
```

```
nodeID
```

```
1
```

...

Solution

To address the problem the supported range for AAAMgr/SessMgr instance in nodeID field in SGW CDR is extended up to 0-4095 starting 21.28.m29/21.28.mh21 release onwards.