

SMF Capabilities to Support 4G and 5G Devices

- Feature Summary and Revision History, on page 1
- Feature Description, on page 2
- How it Works, on page 3
- Configuring Parameters to Support 4G and 5G Devices, on page 5
- OAM Support, on page 8
- Troubleshooting Information, on page 11

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	SMF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled – Configuration Required
Related Changes in this Release	Not Applicable
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
The Phase-2 support for 4G-UE and Option-3x feature includes:	2021.01.0
• DCNR based UPF selection	
• Handling Secondary RAT Data Usage Report from S-GW/MME and relaying it to CHF	
• UE Presence Reporting	
• Handling GTPV1 messages for 4G to 3G handover	
• SUPI+IP session and affinity key for 4G and WiFi handover	
• Avoiding sending of 5G QoS for 4G-only UE	
Handling 5GCNRS and 5GCNRI indication flags from S-GW/MME	
First introduced.	2020.03.0

Feature Description

C)

Important

ant The PGW-C term used in this chapter denote the EPS interworking functionality supported by SMF and must not be assumed as a standalone P-GW that is used in the LTE network.

The dual connectivity enabled UEs support 4G LTE and 5G NR. Such UEs send a signal to the 4G Core Network, indicating that it is a dual connectivity enabled device.

When the Dual Connectivity New Radio (DCNR) capable UE attempts to register in MME, the MME sets the "UP Function Selection Indication Flags" IE with DCNR flag set to 1 in the Create Session Request message. After the S-GW receives this IE over S11, it sends the IE over S5 to PGW-C. This IE transmission helps the SGW-C and PGW-C to select SGW-U and UPF, which supports dual connectivity with NR.

The SMF and PGW-C support Packet Data Unit (PDU) sessions from both the 4G-only capable device and Option 3x capable device (NR and LTE radio connected to the EPC).

The SMF supports the following features and functionality:

- DCNR-based UPF Selection, on page 3
- Secondary RAT Data Usage Report Handling, on page 3
- Presence Reporting Area, on page 3

- 4G to 2G or 3G Handover, on page 3
- SUPI+IP session and affinity key for 4G to Wi-Fi handover
- Avoiding sending of 5G QoS for 4G-only UE (QoS Rules and QoS Flow Description)
- Handling 5GCNRS and 5GCNRI indication flags from S-GW and MME

DCNR-based UPF Selection

The SMF selects DCNR supported UPF for DCNR enabled session if DCNR is configured under query parameters. DCNR is not a mandatory query parameter for UPF selection. You can configure DCNR under UPF Group profile.

For more information, refer to the UPF Node Selection section in the Policy and User Plane Management feature chapter.

Secondary RAT Data Usage Report Handling

The SMF and UPF track the usage on eNB to differentiate the NR or LTE usage for NSA devices. SMF receives usage data ports on S5 interface in various messages and reports the usage towards CHF.

The SMF handles periodic Secondary RAT Usage Data Report from MME over S5 or S8 interface in Modify Bearer Request, Delete Session Request, Delete Bearer Response, and Delete Bearer Command based on the Intended Receiver PGW-C (IRPGW) flag. SMF retains the Usage-Report if IRPGW = 1.

The SMF supports multiple instances of Secondary RAT Usage Data Report IEs. It stores reports until they are sent out to CHF based on the triggers. SMF sends out the stored secondary RAT usage data report when any of the charging triggers are met. You can configure the maximum number of stored secondary RAT usage reports under Charging Profile.

Presence Reporting Area

Presence Reporting Area (PRA) is an area defined within 3GPP packet domain for reporting UE presence within that area due to policy control and/or charging reasons. For E-UTRAN, a PRA consists of a set of neighbor or non-neighbor tracking areas, eNBs and/or cells. You can enable the PRA functionality under DNN profile.

The two types of Presence Reporting Areas that apply to an MME pool are UE-dedicated Presence Reporting Areas and Core Network pre-configured Presence Reporting Areas. SMF supports Core Network pre-configured PRAs.

4G to 2G or 3G Handover

During 4G to 2G or 3G handover, the SMF rejects the GTPv1 message request and re-attaches with 2G or 3G for non-disrupted service continuity. If SMF drops the request, it delays the handover failure and subsequent attach to 2G or 3G.

How it Works

The SMF generates a PDU session ID (pdu-session-id) upon receiving a Create Session Request from the 4G-only UE. The SMF validates if the request has the EPS interworking indication without the PDU session

ID in the Protocol Configuration Option. The UDM provides the interworking indication to the SMF per DNN. The SMF does not use this indication for deciding whether the UE is 5G capable.

The SMF generates a pdu-session-id based on Linked EPS Bearer Identity (LBI). For the 4G sessions, the pdu-session-id is LBI+64 and for the Wi-Fi sessions, the pdu-session-id is LBI+80.

The SMF allows you to configure the default NSSAI under the profile DNN. The NSSAI is part of sliceInfo IE sent in the Policy Create Request to the PCF during session creation from 4G-only UEs. If the default slice is not configured, then SMF selects one of the configured slices.

When the UE is DCNR capable, and the DCNR is enabled for the session, the SMF considers that the UE is capable of supporting dual connectivity. You can configure DCNR per DNN and other NFs, such as UPF. The S-GW notifies the DCNR support to PGW-C through the UPF Selection Indication Flags IE.

Standards Compliance

The Option 3x and 4G-Only Device feature complies with the following standards:

- 3GPP TS 23.003 [2]
- 3GPP TS 24.301 [23]
- 3GPP TS 29.272 [70]
- 3GPP TS 29.274

Limitations

This feature has the following limitations:

- Ultra low latency QCIs are not supported.
- PRA:
 - PRA is supported only towards PCF and not CHF.
 - PRA is applied only based on RAT type of the connecting device and not based on the device type. It is applied to both 4G and 5G devices when connected from LTE.
 - A maximum of four PRA-IDs are processed in a single PCF update message. If a PCF update has more than four PRA-IDs, then the other PRA-IDs are ignored.
 - Only the PRA-ID will be sent in the "Presence Reporting Area Action" IE on S5 interface. User location information will not be sent.
 - Only the PRA-ID will be sent in the "repPraInfos" IE on N7 interface. User location information will not be sent.
 - PRA Set is not supported due to which "Additional PRA Information" is not supported on S5 and N7 interfaces.
- Secondary RAT Data Usage Report:
 - Supports only Option 3 and Option 3x (NR Secondary RAT) UEs on S5 interface.
 - Does not support E-UTRAN Secondary RAT on N2 interface.

Configuring Parameters to Support 4G and 5G Devices

This section describes how to configure the SMF with the capabilities to support 4G and 5G devices.

Configuring this feature involves the following steps:

- Configuring the NSSAI, on page 5
- Enabling DCNR in DNN Profile, on page 5
- Configuring UPF Selection, on page 6
- Configuring Secondary RAT Usage Report, on page 7
- Configuring Presence Reporting, on page 7

Configuring the NSSAI

This section describes how to configure the default NSSAI in SMF, which it includes in sliceInfo IE in the Policy Create Request message. The SMF sends this message towards the PCF during the session creation from 4G-only UEs.

Use the following sample configuration to configure the default NSSAI in the SMF:

```
config
  profile dnn profile_name
    nssai { sd sd_value | sst sst_value }
    exit
```

NOTES:

- profile dnn profile_name: Specify the DNN profile name. profile_name must be an alphanumeric string.
- nssai { sd sd_value | sst sst_value }: Configure the default NSSAI.
 - sd sd_value: Specify the slice descriptor (sd). sd_value must be a 6-digit hex string ([0-9a-fA-F]{6}
 000000 ffffff). For example, 1A2B3c.
 - sst sst_value: Specify the slice type (sst) value. sd_value must be an integer in the range of 0–255.

Enabling DCNR in DNN Profile

To enable SMF to support the DCNR capability for the sessions handled using the DNN profile, use the following sample configuration:

```
config
  profile dnn profile_name
    dcnr { false | true }
    exit
```

NOTES:

- profile dnn profile_name: Specify the DNN profile name. profile_name must be an alphanumeric string.
- dcnr { false | true }:

- false: Configure the DNN profile to have DCNR flag set to false. The DCNR configuration is disabled by default.
- true: Configure the DNN profile to have DCNR flag set to true.

This configuration enables the SMF to support DCNR capability. When the DCNR capability is enabled, the UE sends the DCNR flag to indicate that it supports dual connectivity.

Configuring UPF Selection

This section describes how to enable the DCNR flag and configure the appropriate precedence for DCNR.

Defining the UPF Group

Use the following sample configuration to configure the UPF group and define DCNR in the UPF Group profile.

config

```
profile upf-group profile_name
    dcnr { false | true }
    exit
```

NOTES:

- profile upf-group profile_name: Specify the UPF group name that must be associated to the specified UPF network configuration. profile_name must be an alphanumeric string.
- dcnr { false | true }: Configure the DCNR capability.
 - false: Disable support for DCNR. This is the default setting.
 - true: Enable support for DCNR.

Associating UPF Selection Query Parameters

Use the following sample configuration to associate the defined UPF group with the UPF network element in the DNN profile.

config

```
profile dnn profile_name
    upf-selection-policy upfpolicy_name
    exit
```

NOTES:

- policy dnn profile_name: Enter the DNN Profile configuration mode. profile_name must be an alphanumeric string.
- upf-selection-policy upfpolicy_name: Specify the name of the UPF selection policy that must be associated to the DNN profile. upfpolicy_name must be an alphanumeric string.

Configuring Precedence for DCNR

Use the following sample configuration to configure the appropriate precedence for DCNR in the UPF Selection Policy profile.

```
config
  policy upf-selection upf_name
    precedence precedence_num
        dcnr
        exit
    exit
```

NOTES:

- policy upf-selection upf_name: Specify the UPF policy name that must be associated with the DNN profile. profile_name must be an alphanumeric string.
- **precedence** *precedence_num*: Assign the precedence value to the UPF policy. *precedence_num* must be an integer in the range of 1–4.
- dcnr: Configure the DCNR capability.

Configuring Secondary RAT Usage Report

Use the following sample configuration to configure secondary RAT usage reports before being sent to CHF.

```
config
  profile charging profile_name
  max-secondary-rat-reports report_range
  exit
```

NOTES:

- profile charging profile_name: Enter the Charging Profile configuration mode.
- max-secondary-rat-reports *report_range*: Configure the maximum number of secondary RAT usage reports to trigger CHF update. *report_range* must be an integer in the range of 0–50. Default value: 0.

Configuring Presence Reporting

Use the following sample configuration to configure presence reporting.

```
config
```

```
profile dnn dnnprofile_name
    presence-reporting { false | true }
    exit
```

NOTES:

• profile dnn dnnprofile_name: Enter the DNN Profile Configuration mode.

• presence-reporting { false | true }: Configure presence reporting for the DNN.

- false: Disable presence reporting. This is the default setting.
- true: Enable presence reporting.

Configuration Verification

To verify the configuration, use the following command:

show subscriber supi supi id

In the output of the preceding show command, check the value associated with the field "dncr". This field displays one of the following values:

- Enabled
- None
- UE Requested and Enabled

If the feature is configured, then the "dcnr" field displays "Enabled".

The following configuration is an example output of the show subscriber supi command:

```
unknown] smf# show subscriber supi imsi-123456789012345
subscriber-details
"subResponses": [
{
"status": true,
"genericInfo": {
.....
},
"sScMode": 1,
"chargEnabled": true,
"uetimeZone": "+00:15+1",
"allocatedIp": "209.165.201.12",
"eUtranLocation": {
"ecgi": {
"mcc": "123",
"mnc": "456",
"eutraCellId": "1234567"
},
"tai": {
"mcc": "123",
"mnc": "456",
"tac": "1820"
}
},
"alwaysOn": "None",
"dcnr": "Enabled",
"policySubData": {
"TotalDynamicRules": 3,
Presence Information: "Enabled",
 "praIdList": [ -> list of all enabled PRA IDs
          "8388608", Status = IN
          "8388618" Status = OUT
        1
 },
```

OAM Support

This section describes operations, administration, and maintenance information for this feature.

Statistics Support

The SMF uses the "dcnr" label in the session gauge "smf_session_counter" and "smf_service_stats" for collecting the DCNR session count. When the SMF session is DCNR supported, the "dcnr" label value is enabled. The label does not support non-DCNR sessions.

The following is a sample query to count the active DCNR SMF sessions:

```
nts{action_type="rejected",app_name="smf",cluster="smf",data_center="unknown",
failure_type="hdr_decode_failure",hdr_decode_fail_reason="",instance_id="0",interface_type="
",message_type="",reject_cause="",service_name="gtpc-ep"} 2
smf_session_counter: sum (smf_session_counters{dcnr_on="enable"}) by (dcnr)
smf_service_stats: sum (smf_session_stats{dcnr_on="enable"}) by (dcnr, status, reason)
smf_session_counters{ presence-reporting ="enable"}) by (presence-reporting)
```

DCNR Session Count

For DCNR, Session Count supports the "dcnr" label in the existing session gauge "smf_session_counter". If the SMF session is a DCNR session, then the "dcnr" label value is "enable", otherwise it is "disable" for DCNR session.

The following is a sample query to count the DCNR active SMF sessions:

sum (smf_session_counters{dcnr_on="enable"}) by (dcnr)

For DCNR statistics, the existing "smf_service_stats" counter supports the "dcnr" label. For DCNR sessions, this counter pegs the following labels and values:

- Attempt Statistics dcnr= "enable" and status= "attempted"
- Success Statistics dcnr= "enable" and status= "success"
- Failure Statistics dcnr= "enable" and status= "failures"

The following is a sample query for DCNR statistics:

```
sum (smf_session_stats{dcnr_on="enable"}) by (dcnr, status, reason)
```

Secondary RAT Data Usage Reports

The Secondary-Rat-Data-Usage-Reports support the "smf_secondary_rat_usage_report_stats" counter. Labels for these statistics include ebi, qfi, rat_type, reason, service_name, and status. This counter pegs with the following labels and values:

- ebi=ebi-val
- qfi=qfi-val
- rat type=NR
- reason=success/failure
- service name=smf-service
- status=ReceivedFromSgw/SentToChf

The following is a sample query for DCNR statistics:

```
sum (smf_secondary_rat_usage_report_stats") by (qfi, status, reason)
```

Presence Reporting

For Presence Reporting, Session Count supports the "pra" label in the existing session gauge "smf_session_counter". If the SMF session has presence reporting enabled, then the "presence-reporting" label value is "enable" else it is "none" if presence reporting is not enabled.

The following is a sample query to count the DCNR active SMF sessions:

sum (smf_session_counters{ pra ="enable"}) by (pra)

For Presence Reporting, statistics support the "presence-reporting" label in the existing counter "smf_service_stats". For presence-reporting session, this counter pegs the following labels and values:

- Attempt Statistics pra = "enable" and status= "attempted"
- Success Statistics pra = "enable" and status= "success"
- Failure Statistics pra = "enable" and status= "failures"

The following is a sample query for DCNR statistics:

```
sum (smf session stats{ pra ="enable"}) by (pra, status, reason)
```

Bulk Statistics

The Option 3x and 4G-Only Device feature supports the following bulk statistics in SMF schema:

ImportImportImportImportImportImportImportfor session attach or detach.for session attach or detach.currently sessions. active se such as " DCNR ssmf_session_statsCounterIncrements for success or failures of the call flow.Indicates flow stat success, filter the labels, su for onlyThe Secondary RAT Data Usage report_statsCounterIncrements for the status of the secondaryRatDataUsageDisplays secondaryRatDataUsage processin	tion
failures of the call flow.flow stat success, filter the labels, su for onlyThe Secondary RAT Data Usage Report functionality supports the followingbulk stati statismf_secondary_rat_usage_ report_statsCounterIncrements for the status of the secondaryRatDataUsageDisplays secondary processin	s the total number of y active SMF . You can filter the ession using labels, dcnr=enable" for the session count.
smf_secondary_rat_usage_ report_stats Counter Increments for the status Displays of the secondary secondaryRatDataUsage processin	s the statistics for call es such as attempted, and failures. You can statistics using uch as "dcnr=enable" DCNR statistics.
report_stats of the secondary secondaryRatDataUsage processing	istics:
and "Ser filter the	s the statistics for ryRatUsageReports ng for call flow status 'ReceivedFromSgw" ntToCHF". You can e statistics using uch as reason and

Bulk Statistics Name	Statistics Type	Trigger	Description
smf_session_counters	Gauge	Increments or decrements for session attach or detach.	Indicates the total number of current active SMF sessions. You can filter the session using labels, such as "pra=enable" for the presence reporting enabled session count.
smf_session_stats	Counter	Increments for success or failures of the call flow.	Indicates the statistics for call flow states such as attempted, success, and failures. You can filter the statistics using labels, such as "pra=enable" for only presence-reporting statistics.

Troubleshooting Information

This section provides information on using the command line interface (CLI) commands, alerts, logs, and metrics for troubleshooting issues that may arise during system operation.

Subscriber Details with DCNR and Presence Reporting Enabled

The **show subscriber nf-service smf supi** *supi_id* **full** CLI command displays the DCNR active session with presence reporting enabled for the Option-3x feature.



Note In 2021.02 and later releases, the namespace keyword is deprecated and replaced with the nf-service keyword.

```
[unknown] smf# show subscriber nf-service smf supi imsi-310260789012345 full
subscriber-details
{
  "subResponses": [
    {
      "status": true,
      "genericInfo": {
        "supi": "imsi-310260789012345",
       "pei": "imei-123456786666660",
       "pduSessionId": 5,
        "pduSesstype": "Ipv4PduSession",
        "accessType": "3GPP ACCESS",
        "dnn": "fast.t-mobile.com",
        "plmnId": {
          "mcc": "123",
          "mnc": "456"
        },
        "alwaysOn": "None",
```

```
"dcnr": "Enabled",
      "wps": "Non-Wps Session",
      "ratType": "EUTRA",
      "ueType": "NR Capable UE",
      "iwkEpsInd": true,
      "sessTimeStamp": "2021-01-12 12:40:39.931012285 +0000 UTC",
      "callDuration": "4m25.36784895s",
      "ipPool": "poolv4",
      "commonId": 16777223,
      "linkedEbi": 5,
      "smfIwkEpsInd": true,
      "snssai": {
        "sd": "Abf123",
        "sst": 1
      },
      "authStatus": "Unauthenticated",
      "roamingStatus": "Roamer",
      "uePlmnId": {
        "mcc": "310",
        "mnc": "260"
      }
    },
    "policySubData": {
      "TotalDynamicRules": 2,
      "TotalFlowCount": 2,
      "TotalNonGBRFlows": 1,
      "TotalGBRFlows": 1,
      "presenceReporting": "Enabled",
      "praList": [
        {
          "praId": "0x80000b",
          "presenceState": "Inactive"
        },
        {
           "praId": "0x800000",
           "presenceState": "InArea"
        },
        {
          "praId": "0x80000a",
          "presenceState": "OutOfArea"
        ł
      ]
    },
    •••
    }
  }
]
```

Option-3x: DCNR Enabled UE Alerts

}

This section describes the alerts supported for DCNR enabled UEs with presence-reporting enabled. You can enhance these alerts as per 4G procedure or as per the intent of the end user.

Examples of DCNR statistics or gauges are pdn_sess_create, pdn_inter_sgw_handover, pdn_mbr, pcf_req_ded_brr_mod, pcf_req_ded_brr_create, pcf_req_ded_brr_delete, delete_session_request, smf_initiated_pdn_detach, ue_req_pdn_sess_rel, and so on.

DCNR UE Attach Failure Threshold Alert

Use the following example to configure alerts related to DCNR UE Attach Failure Threshold.

```
alerts rules group DCNRUES
rule DCNR_UE_SR
expression "sum by (namespace) (increase(smf_service_stats{app_name=\"smf\",
dcnr=\"enable\", rat_type!=\"EUTRA\", status=\"success\",
procedure_type=\"pdn_sess_create\"}[5m])) / sum by (namespace)
(increase(smf_service_stats{app_name=\"smf\", dcnr =\"enable\", rat_type!=\"EUTRA\",
status=\"attempted\", procedure_type=\"pdn_sess_create\"}[5m])) < 0.10"
severity major
type "Communications Alarm"
annotation summary
value "This alert is fired when attach success rate of DCNR enabled UE lesser than
threshold"
exit
exit</pre>
```

DCNR UE Attach Failure Threshold Alert with Presence Reporting

Use the following example to configure alerts related to DCNR UE Attach Failure Threshold with presence reporting enabled.

rule DCNR_UE_PRA_ENABLE_SR

```
expression "sum by (namespace) (increase(smf_service_stats{app_name=\"smf\",
dcnr=\"enable\", rat_type!=\"EUTRA\", status=\"success\", procedure_type=\"pdn_sess_create\",
pra=\"enable\"}[5m])) / sum by (namespace) (increase(smf_service_stats{app_name=\"smf\",
dcnr =\"enable\", rat_type!=\"EUTRA\", status=\"attempted\",
procedure_type=\"pdn_sess_create\", pra=\"enable\"}[5m])) < 0.10"
severity major
type "Communications Alarm"
annotation summary
value "This alert is fired when attach success rate of DCNR enabled UE and presence
reporting enabled lesser than threshold "
exit
exit
```

DCNR UE Bulk Statistics

Use the following SMF service bulk statistics to monitor the failures or issues associated with DCNR UEs.

Table 3: DCNR UE

Bulk Statistics Name	Query	Description
4G_DCNRUE_Attempted	bulk-stats query 4G_DCNRUE_Attempted expression "sum(smf_service_stats {dcnr='enable',status='attempted', rat_type='EUTRA'}) by (namespace)" exit	

Bulk Statistics Name	Query	Description
4G_DCNRUE_Success	bulk-stats query 4G_DCNRUE_Success expression "sum(smf_service_stats {dcnr='enable',status='success', rat_type='EUTRA'}) by (namespace)" exit	
4G_PRA_ENABLE_Attempted	bulk-stats query 4G_PRA_ENABLE_Attempted expression "sum(smf_service_stats {pra='enable',status='attempted', rat_type='EUTRA', procedure_type!='create_session_request'}) by (namespace)" exit	
4G_PRA_ENABLE_Success	bulk-stats query 4G_PRA_ENABLE_Success expression "sum(smf_service_stats {pra='enable',status='success', rat_type='EUTRA', procedure_type!='create_session_request'}) by (namespace)" exit	

Option-3x Device Specific Error Logs

This section provides the basic error conditions and logs that are captured to debug the failures for the Option-3x feature.

DCNR Disabled UE or 4G capable UE only

The following example displays the error log for DCNR disabled UE or 4G capable UE only.

2021/01/24 10:11:22.648 smf-service [ERROR] [GenericGtpMsg.go:1811] [smf-service.smf-app.sgw] secRatUsageRpt recvd wrongly for DNCR disbled UE, ignoring report

2020/12/19 13:17:17.834 smf-service [ERROR] [GenericGtpMsg.go:1834] [smf-service.smf-app.sgw] secRatUsageRpt recvd wrongly for 4gOnly UE, ignoring report

Secondary RAT Usage with invalid EBI

The following example displays the error log for secondary RAT usage with invalid EBI.

```
2021/01/24 11:38:18.917 smf-service [DEBUG] [GenericGtpMsg.go:1824] [smf-service.smf-app.sgw]
Secondary Rat Data Usage Report Recvd
2021/01/24 11:38:18.917 smf-service [WARN] [IntMethods.go:137] [smf-service.Policy.gen] Qos
Flow not found with EBI [8]
2021/01/24 11:38:18.917 smf-service [ERROR] [GenericGtpMsg.go:1853] [smf-service.smf-app.sgw]
Qfi invalid in secRatUsageRpt
```

Secondary RAT Usage invalid RAT Type

The following example displays the error log for secondary RAT usage with invalid RAT type.

2021/01/24 11:42:21.474 smf-service [DEBUG] [GenericGtpMsg.go:1824] [smf-service.smf-app.sgw] Secondary Rat Data Usage Report Recvd 2021/01/24 11:42:21.474 smf-service [ERROR] [GenericGtpMsg.go:1861] [smf-service.smf-app.sgw] Rat type invalid in secRatUsageRpt

Secondary RAT Usage with intended PGW set to zero

The following example displays the error log for secondary RAT usage with intended P-GW set to zero (IRPGW:0).

2021/01/24 11:33:10.390 smf-service [DEBUG] [GenericGtpMsg.go:1824] [smf-service.smf-app.sgw] Secondary Rat Data Usage Report Recvd 2021/01/24 11:33:10.390 smf-service [ERROR] [GenericGtpMsg.go:1865] [smf-service.smf-app.sgw] secRatUsageRpt.IRPGW is false

PRA ID received greater than four

The following example displays the error log when PRA ID received is greater than four.

```
2021/01/24 14:48:26.085 smf-service [DEBUG] [policy_types.go:659] [smf-service.Policy.gen]
praConfig:true for dnn:fast.t-mobile.com
2021/01/24 14:48:26.085 smf-service [DEBUG] [policy_pcf.go:1939] [smf-service.Policy.gen]
Added PRA ID: 9388618
2021/01/24 14:48:26.085 smf-service [DEBUG] [policy_pcf.go:1939] [smf-service.Policy.gen]
Added PRA ID: 9388608
2021/01/24 14:48:26.085 smf-service [DEBUG] [policy_pcf.go:1939] [smf-service.Policy.gen]
Added PRA ID: 8388618
2021/01/24 14:48:26.085 smf-service [DEBUG] [policy_pcf.go:1939] [smf-service.Policy.gen]
Added PRA ID: 9388618
2021/01/24 14:48:26.085 smf-service [DEBUG] [policy_pcf.go:1939] [smf-service.Policy.gen]
Added PRA ID: 9388619
2021/01/24 14:48:26.085 smf-service [WARN] [policy_pcf.go:1934] [smf-service.Policy.gen]
Max 4 PRAs allowed, ignoring the PRA-ID (8388618) from PCF
2021/01/24 14:48:26.085 smf-service [WARN] [policy_pcf.go:1934] [smf-service.Policy.gen]
```