

RAN/NAS Cause IE support in S2b Messages

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Feature Information

Summary Data

Status:	New Feature
Introduced-In Release:	21.2
Modified-In Release(s):	ePDG
Applicable Product(s):	Cisco ASR 5500, VPC-SI, VPC-DI, UGP
Customer Specific:	No
Default Setting:	Disabled
CDETS ID(s)	CSCvd28732
Related Changes in this Release:	NA
Related Documentation:	ePDG Admin Guide, CLI Ref Guide and RCR

Revision History

Important Revision history details are not provided for features introduced before release 21.2.

Revision Details	Release	Release Date
New in this release.	21.2	April 27, 2017

Feature Description

This feature supports RAN/NAS Cause IE in S2b messages, IE is sent in the below S2b messages:

- Delete Session Request
- Create Bearer Response
- Update Bearer Response

Key functionalities of RAN/NAS Cause IE in S2b Messages:

- IE is sent in delete session request to denote the internal/UE/Diameter cause, which will result in session termination.
- IE is sent in Create Bearer Response to denote the internal cause due to which the "request bearer creation" have to be rejected. As ePDG does not interact with UE/AAA for create bearer request it will send internal cause codes.
- IE is sent in Update Bearer Response to denote the internal cause due to which the "request bearer update" have been rejected. As ePDG does not interact with UE/AAA for update bearer request, so ePDG will send internal cause codes.
- New CLI is introduced under call-control profile which enables/disables sending of RAN/NAS Cause IE and internal failure causes.

Assumptions and Limitations

- eGTPC rejected requests do not have RAN/NAS Cause IE stack.
- If Notify Payload is not received as part of Delete request from UE, internal failure cause would be sent in RAN/NAS cause IE.

Configuring RAN/NAS Cause IE support in S2b

New CLI introduced as part of RAN/NAS Cause IE support in S2b

```
config
         call-control-profile  profile_name
         epdg-s2b-gtpv2 send ran-nas-cause internal-failure protocol-type
 8
           [remove] epdg-s2b-gtpv2 send ran-nas-cause internal-failure
        exit
     exit
```

Monitoring and Troubleshooting the ePDG RAN/NAS Cause IE Support In S2b

New show command outputs introduced as part of RAN/NAS Cause IE support in S2b:

show call-control-profile full name

- Sending RAN NAS CAUSE
- Sending RAN NAS CAUSE Internal Failures
- RAN NAS CAUSE Internal Failures Protocol Type