



# Handling Simultaneous Gy RARs from Different DRAs with Different RGs

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## Revision History

Revision Details	Release
First introduced.	21.28.m1

## Feature Description

CUPS supports multiple Diameter Routing Agents (DRA) to prevent the abort of pending Credit Control Request–Update (CCR-U) requests from previous Reauthorization Requests (RAR) with a different host or peer on the Gy interface.

P-GW accepts different rating-groups (RG) from different peers by configuring the **diameter pending-ccau allow-on-rar-peer-switch** CLI command in the ACS configuration mode. This command allows you to configure the DCCA client to prevent the abort of a pending CCR-U request.

For more information on the multiple DRA support in P-GW, see the *Support for Multiple DRA over Gy Interface* chapter in the *P-GW Administration Guide*.

## How it Works

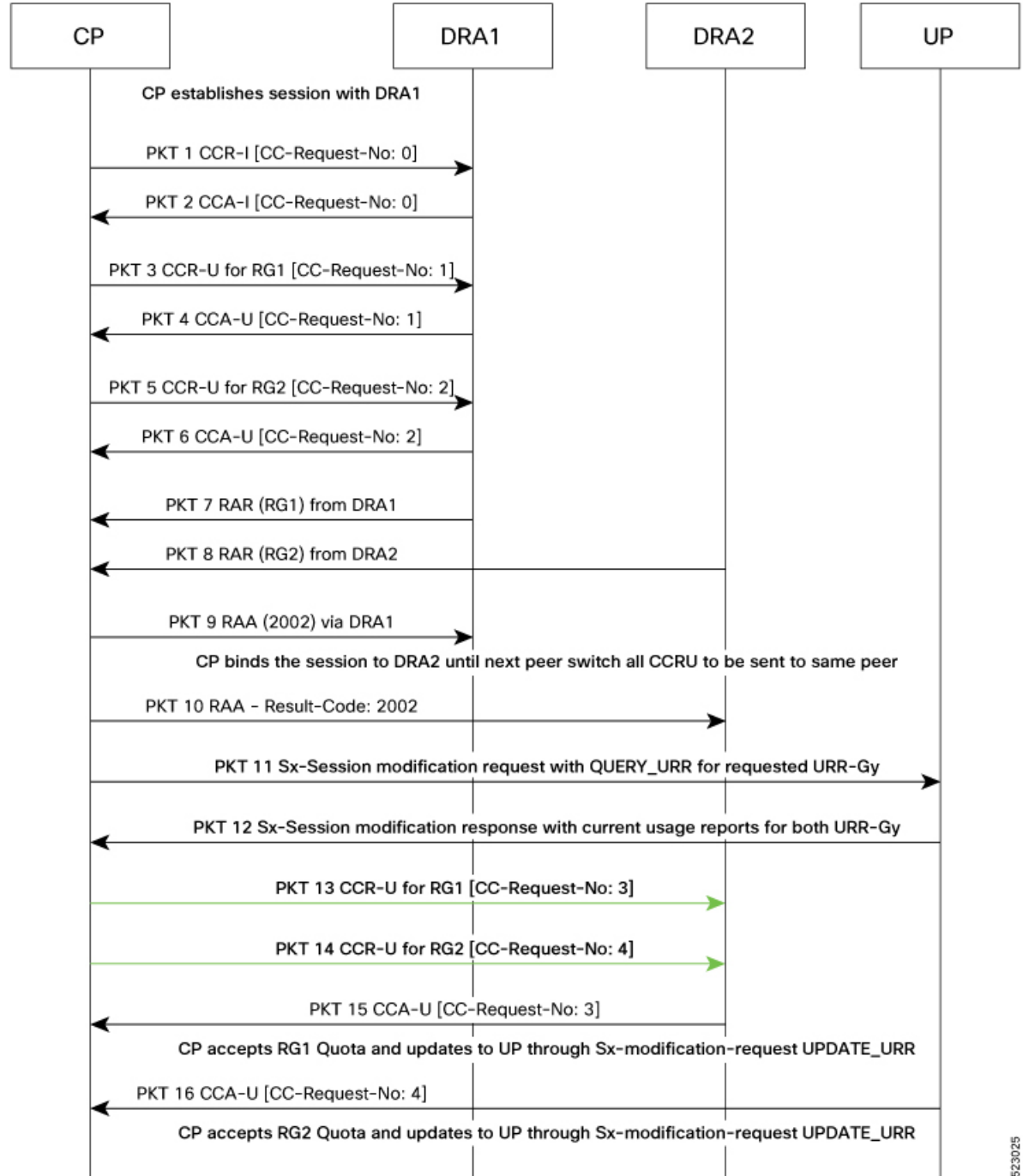
This section describes how the multiple DRA feature works in CUPS.

P-GW and CUPS handle the collision scenarios differently. In legacy P-GW, each CCR-U with FORCED REAUTHORIZATION is sent to the corresponding DRAs.

In CUPS, the user plane fetches every CCR-U that is sent along with the current usage report. During collision, if more than one specific RAR is received at the same time from different DRAs for the respective rating groups, the control plane marks the Gy-URR buckets, and sends Sx Session Modification Request to the user plane. The user plane sends back the current usage reports to the control plane for the requested Gy-URR bucket in Sx Session Modification Response. If RAR is received from different DRAs, the peer switch happens. In CUPS, each CCR-U with FORCED REAUTHORIZATION for the requested rating groups is sent to the peer DRA of the latest path switched.

The following call flow illustrates how P-GW accepts both RGs from different peers.

Figure 1: Multiple DRA Call Flow in CUPS



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## Configuring the Feature

To configure the handling of multiple RAR requests involving multiple DRAs, use the following configuration:

```

configure
  context context_name
  active-charging service acs_service_name
    credit-control [ group cc_group_name ]
    diameter dictionary dictionary
      [ no ] diameter pending-ccau allow-on-rar-peer-switch
    end

```

**NOTES:**

- **diameter dictionary *dictionary***: Set the diameter dictionary to handle different DRAs.  
For example: **diameter dictionary *dcca-custom-26***
- **diameter pending-ccau allow-on-rar-peer-switch**: Allow the DCCA client to prevent the abort of pending CCAU requests.
- **no diameter pending-ccau allow-on-rar-peer-switch**: Disable the DCCA client from preventing the abort of pending CCAU requests.

## Monitoring and Troubleshooting

This section provides the monitoring and troubleshooting information for the multiple DRA feature.

### Show Commands and Outputs

This section provides information regarding show commands and outputs in support of this feature.

#### show active-charging service all

*Table 1: show active-charging service all*

Field	Description
pending ccau:	
allow-on-rar-peer-switch	Displays "Enabled or "Disabled" to indicate the abort of pending CCA-U request if RAR is received from different host or peer on the Gy interface. If this feature is enabled, the functionality is applicable only to new Diameter sessions.