

## **Rate Limiting Function (RLF)**

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## **Revision History**

**Note** Revision history details are not provided for features introduced before release 21.24.

Revision Details	Release
First introduced	Pre 21.24

## **Feature Description**

The RLF feature implements a generic framework that can be used by multiple interfaces and products for rate-limiting/throttling outgoing messages like Diameter messages on Gx, Gy interface towards PCRF.



Important

The working of RLF feature, including the CLI commands, in the CUPS architecture is similar to how it works in the non-CUPS environment.

When applications send messages to peers at a high rate (for example, when a large number of sessions goes down at the same time), accounting stop messages for all the sessions are generated at the same time) the peer may not be able to handle the messages at such high rates. To overcome this situation, the Rate Limiting Function (RLF) framework is developed so that the application sends messages at an optimal rate such that peer is capable of receiving all the messages and does not enter an overload condition.

This feature can be enabled using the **rlf-template** CLI command in the Global Configuration mode. The users can define the rate limiting configurations within this template. For more information on the command, see the *Command Line Interface Reference*.



To use the template, Diameter or any other applications must be associated with the template. The RLF provides only the framework to perform the rate limiting at the configured Transactions Per Second (TPS). The applications (like Diameter) should perform the configuration specific to each application.