

Message "IPRT-3-RIB_LOOP" - Resolution Loop Formed by Routes in RIB



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Introduction

This document describes the syslog message **%IPRT-3-RIB_LOOP: Resolution loop formed by routes in RIB**.

Explanation

The syslog message **%IPRT-3-RIB_LOOP: Resolution loop formed by routes in RIB** means that a routing loop was introduced into the Routing Information Table (RIB), the routing table of the router when it resolves routes. The cause of this could be a change in the network topology (for example, an interface flap), a normal temporary routing convergence event, or a misconfiguration.

If the error is temporary/transient, this might be perfectly normal during a routing convergence. If this is persistent, it needs investigation.

An example of how a routing loop can be formed due to bad configuration and operation is explained in `show ip route loops`.

Recommended Action

Complete these steps:

1. Enter the **show ip route loops** command in order to identify which routes are involved and how the loop occurred.
2. Check what recent changes were made to the network and/or routing protocols.
3. Try to correct the misconfiguration, if any.
4. Check for possible known defects with loops in the RIB for the specific Cisco IOS® version.
5. Check for side effects, such as continuous high CPU and route churn in the RIB.