# Troubleshoot RCM Based Standby UPF Session Manager Socket Ready

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## Introduction

This document describes Standby UPF Session Manager tasks lacking socket connection to corresponding rcm-checkpointmgr pods in RCM-based deployment.

# **Background Information**

This document addresses occasional Standby User Plane Function (UPF) Session Manager tasks which have Socket Ready issues; lacking socket connection to corresponding rem-checkpointmgr pods in Redundancy Configuration Manager (RCM)-based UPF deployment.

# **Problem**

In Standby UPF, Session manager task instance 10 has no socket connection to rcm-checkpointmgr pod.

[]ocal]	IIPF#	show	rcm	checkpoint	statistics	verbose
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smgr	state	peer	•	pre-alloc	chk-point rcvd		chk-point sent	
inst		conn	records	calls	full		full	micro
1	Stbv	Ready	0	0	0	0	0	0
2		Ready	0	0	0	0	0	0
3	-	Ready	0	0	0	0	0	0
4	Stby	Ready	0	0	0	0	0	0
5	Stby	Ready	0	0	0	0	0	0
6	Stby	Ready	0	0	0	0	0	0
7	Stby	Ready	0	0	0	0	0	0
8	Stby	Ready	0	0	0	0	0	0
9	Stby	Ready	0	0	0	0	0	0
10	Stby		0	0	0	0	0	0
11	Stby	Ready	0	0	0	0	0	0
12	_	Ready	0	0	0	0	0	0
13	-	Ready	0	0	0	0	0	0
14	Stby	Ready	0	0	0	0	0	0
15	_	Ready	0	0	0	0	0	0
16	-	Ready	0	0	0	0	0	0
17	Stby	Ready	0	0	0	0	0	0
18	_	Ready	0	0	0	0	0	0
19	Stby	Ready	0	0	0	0	0	0
20	_	Ready	0	0	0	0	0	0
21	Stby	Ready	0	0	0	0	0	0

22 Stby Ready 0 0 0 0 0 0

## **Solution**

#### **Current Workaround:**

- To address the socket communication issue between Standby UPF Session Manager and its remcheckpointmgr pod:
- Log in to the corresponding Standby UPF.
- Enter debug mode (cli test-commands password <password>).
- Execute 'task kill facility sessmgr instance <instance-id>' for the affected session manager task without a socket connection to rcm-checkpointmgr.
- Wait for a minute, then verify that the Session Manager task now has a stable socket connection in the Ready state.
- If the issue persists, consider rebooting the Standby UPF and recheck after the UPF is fully operational.

#### **Permanent Fix:**

• You can explore implementing TCP hardening feature in your deployment. This feature introduces a Heartbeat mechanism between Session Manager tasks and rcm-checkpointmgr pods, ensuring the socket connection is re-established as needed. For details, refer to <a href="Redundancy Configuration">Redundancy Configuration</a> Manager -Configuration and Administration Guide, Release 2022.04.