

## RCA\_for\_Engine\_failover

Abrupt Engine mastership failover to the HA node can happen for multiple reasons

- **Engine process crashed**
  - ◆ How to find it? Refer to [How to check if a process crashed](#)
  - ◆ How to analyze the core file? Refer to [How to analyze the core file](#)
- **CVD process crashed.** Engine service is dependent upon CVD service. So if CVD crashes/restarted, Engine too gets restarted, thereby causing mastership failover to the other node.
- **Engine ran into OutOfMemory**
  - ◆ Check the MIVR logs for the OOM reason.
    - ◇ *java.lang.OutOfMemoryError: GC overhead limit exceeded*
  - ◆ Debug it based upon the OOM reason. Refer to [How to debug OutOfMemoryError](#)
- **Nodes went into island mode (multiple masters) and recovered.** Upon recovery publisher node retains mastership.
  - ◆ Check the MCVD logs for the failover logs.
- **Application error happened,** and Engine decided to shutdown
  - ◆ Look for *com.cisco.wfapi.WFKeepAliveException: KeepAliveException in ManagerManagerImpl* in MIVR logs.