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| **How to Enable Oracle Net Dead Connection Detection or DCD (Doc ID 160386.1)** | [To Bottom](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=317926331182126&id=160386.1&_adf.ctrl-state=izzo5hc33_160%20\o%20To%20Bottom) |  |





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| **APPLIES TO:**  Oracle Net Services - Version 10.1.0.2 to 11.2.0.4 [Release 10.1 to 11.2]  Information in this document applies to any platform.  **GOAL**  This note describes how to enable Dead Connection Detection.  Most often, this feature is used to keep connections alive in environments with firewalls.  Some firewalls enforce a maximum idle time rule between clients and server.  This setting will cause a probe packet to be sent between server and client at regular intervals.  DCD can also be used to clean up orphaned processes at the server.  See this document for more information about that:  [Note 601605.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=160386.1&id=601605.1) A discussion of Dead Connection Detection, Resource Limits,  V$SESSION, V$PROCESS and OS processes  **SOLUTION**  On the server side, add the folllowing parameter to the sqlnet.ora file:  SQLNET.EXPIRE\_TIME= <# of minutes>  A typical setting for keepalive would be 10 minutes.  A typical setting for maximum idle time on a firewall is 60 minutes.  It is necessary to issue a Lsnrctl reload or restart after this file has been changed.  The following note is helpful in determining if DCD is enabled and working properly:  [Note 395505.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=160386.1&id=395505.1) How to Check if Dead Connection Detection (DCD) is Enabled  in 9i and 10g    **REFERENCES**  [NOTE:395505.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=160386.1&id=395505.1) - How to Check if Dead Connection Detection (DCD) is Enabled in 9i ,10g and 11g  [NOTE:601605.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=160386.1&id=601605.1) - A discussion of Dead Connection Detection, Resource Limits, V$SESSION, V$PROCESS and OS processes |