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| **How To Change Timezone for Grid Infrastructure (Doc ID 1209444.1)** | [To Bottom](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\o%20To%20Bottom) |  |





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| **In this Document**   |  |  | | --- | --- | |  | [Goal](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20GOAL) | |  | [Solution](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20FIX) |  |  |  | | --- | --- | |  | [Grid Time Zone Setting](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20aref_section21) | |  | [OS Default Timezone Setting](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20aref_section22) |  |  |  | | --- | --- | |  | [Linux](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20aref_section23) | |  | [hp-ux](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20aref_section24) |  |  |  | | --- | --- | |  | [Solaris](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20aref_section25) | |  | [AIX](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=527900436202996&id=1209444.1&_adf.ctrl-state=mq6c2j97r_306%20\l%20aref_section26) |  |  |  | | --- | --- | |  | References |     **APPLIES TO:**  Oracle Database - Enterprise Edition - Version 11.2.0.1 and later  Generic UNIX  **GOAL**  This note is to illustrate how to change time zone setting for Grid Infrastructure after installation.  **SOLUTION**  **Grid Time Zone Setting**  Once OS default timezone is changed, make sure:  1. For 11.2.0.1, shell environment variable TZ is set correctly for grid user and root.  2. For 11.2.0.2 and above, TZ entry in $GRID\_HOME/crs/install/s\_crsconfig\_<nodename>\_env.txt sets to correct time zone.  The TZ must be exactly as what the OS supports, i.e.:  grep TZ s\_crsconfig\_<nodename>\_env.txt  TZ=US/Pacific  Below is a bad example since there's irrelevant characters (An incorrectly set time zone may cause issues like session shows wrong timestamp when connecting through listener).  TZ=%s\_Asia/Kuala Lumpur%  Backup before making a change with en editor. Once modified and verified as privileged user, GI can be restarted with new value.    For pre-11.2 CRS, "init.cssd diag" can be used to confirm TZ setting for CRS; init.cssd could be located in /etc/init.d, /etc or /sbin/init.d depend on platform.  **OS Default Timezone Setting**  ***Linux***  To change: **/usr/sbin/timeconfig**  To display current setting:  **cat /etc/sysconfig/clock**  ZONE="America/Los\_Angeles"  UTC=true  ARC=false  To find out all valid setting: **ls -l /usr/share/zoneinfo**  Anything that appears in this directory is valid to use, for example, CST6CDT and America/Chicago.    Note: the "Zone" field in /etc/sysconfig/clock could be different than what's in /usr/share/zoneinfo in OL6.3/RHEL6.3, the one from /usr/share/zoneinfo should be used in $GRID\_HOME/crs/install/s\_crsconfig\_<nodename>\_env.txt    ***hp-ux***  To display current setting:  **cat /etc/default/tz**  PST8PDT  To change: **set\_parms timezone**    To find out all valid setting: **ls -l /usr/lib/tztab**    ***Solaris***  To display current setting:  **grep TZ /etc/TIMEZONE**  TZ=US/Pacific  To change on x64, modify TIMEZONE, also run "rtc -z US/pacific; rtc -c"  To find out all valid settings: ls -l /usr/share/lib/zoneinfo    ***For Solaris 11***:  In solaris 11 the /etc/TIMEZONE file is obsoleted.  This is now done via the timezone:default service:  # svccfg -s timezone:default setprop timezone/localtime= astring: <timezone>  # svcadm refresh timezone:default  ***AIX***  To display current setting:  **grep TZ /etc/environment**  TZ=GMT  Refer to the following URL for more about timezone on AIX:  <http://publib.boulder.ibm.com/infocenter/pseries/v5r3/index.jsp?topic=/com.ibm.aix.files/doc/aixfiles/environment.htm>          **REFERENCES**  [NOTE:1390015.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=1209444.1&id=1390015.1) - Incorrect SYSDATE shown when connected via Listener in RAC  [NOTE:1011541.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=1209444.1&id=1011541.1) - Solaris OS: Where Is the Default Timezone Set and How Can It Be Changed?  [NOTE:1531653.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=1209444.1&id=1531653.1) - How to use multiple timezones with one Oracle RAC database |