

z/VSE and Changes to Daylight Saving Time (DST)

General Information

In most countries you must prepare for a time change twice a year, Daylight Saving Time (DST – summer time) in March and winter time in October or November dependent on the country. Two DST examples are listed below:

U.S. Daylight Saving Time (default):

Start: 2 a.m. on the second Sunday of March
End: 2 a.m. on the first Sunday in November

German Daylight Saving Time (default):

Start: 2 a.m. on the last Sunday of March
End: 2 a.m. on the last Sunday of October
Together with many other countries in Europe

Impact to VSE

A local time change forward has normally no effect on subsystem operation. It may have an impact on accounting, however. A local time change backwards could affect subsystems and accounting routines more severely.

Therefore, we recommend to IPL the z/VSE system for any time changes.

There is **no automatic Daylight Saving Time adjustments in z/VSE.**

z/VSE supports manual customization of time/date/zone as follows:

1. Based on *Advanced Functions* IPL "SET" or "SET ZONEDEF/ZONEBDY" commands. A system restart is required for activation. (For details see: *Hints and Tips for z/VSE* and/or *z/VSE System Control Statements*)
2. For CICS TS a Technote on “Daylight Saving Time changes effect on CICS” may be relevant – see <https://developer.ibm.com/answers/questions/177632/daylight-saving-time-changes-effect-on-cics-ts.html>
3. Language Environment for z/VSE (LE) allows to set up the run-time environment and customize time information for the default locale.

Note: Customizing LE time information is optional. It is not required if the z/VSE system time is adjusted using SET ZONEDEF/ZONEBDY. If done, it applies only to

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LE/C applications or applications/products that use the LE/C run-time.

The supplied sample job EDCLLOCL.Z suits to make changes to the time zone and Daylight Saving Time parameters. If this method is used the new DST conventions should be established here. (For details see: *LE/VSE Customization Guide*, Appendix E. *Customizing C Locale Time Information*).

Usage Notes:

- The supplied USA (EDC\$USA.A) and default (EDC\$\$370.A) locales do not specify any DST zone information, nor does the supplied EDCLOCI.A sample.
- Modifying and running EDCLLOCL job will re-link LE/VSE options modules CEEDOPT and CEECOPT. If service is applied to these phases you may need to rerun the EDCLLOCL job.
- To define the new time zone information rules for the USA with LE/VSE the following EDCLOCTZ macro definitions (supplied in the EDCLLOCL.Z generation job) would suit:

```
*          TIME ZONE CUSTOMIZATION FOR NEW U.S. DST FROM 2007 ONWARDS
EDCLOCI  EDCLOCTZ  TZDIFF=300,TNAME='EST',DSTNAME='EDT',DSTSTM=3,      *
          DSTENM=11,DSTSTW=2,DSTENW=1,DSTSTD=0,DSTEND=0,          *
          STARTTM=7200,ENDTM=7200,SHIFT=3600
          END
```

- If you tailor and create a new default locale TOD (or TZ) setting using the EDCLOCTZ macro or LC_TOD locale category, this will over-ride the LE/C run-time's use of the VSE system time.

Note: The above referenced manuals are available in the *z/VSE Knowledge Center* – https://www.ibm.com/support/knowledgecenter/en/SSB27H/zvse_welcome.html (select z/VSE release, URLs to documentations are on the right: PDF Library for “z/VSE System Control Statements” and “Technical Articles and Whitepapers” for Hints and Tips for z/VSE)