Impact of Changes to Daylight Savings Time (DST) in U.S. and Canada

In March 2007, the effective dates of DST in the U.S. and Canada will change. Sun has announced that older versions of its Java Runtime Environment (JRE) need to be modified to correctly handle these changes. U2 Web DE and U2 data server Clients currently ship with older versions of the JRE . No issues exist with the U2 Clients or U2 Web DE as they do not call time functions. However, user-created Java™ applications that use an older JRE may be affected. This document describes the changes, the impact and what actions may be taken to address any concerns.

U2 data servers (UniData and UniVerse) and other tools and components, including SystemBuilder and wIntegrate, are not affected as they do not ship a JRE nor do they make calls to any time functions from a JRE.

Changes to Daylight Saving Time

The United States and parts of Canada are extending the period of Daylight Saving Time (DST) beginning in 2007. From 2007 onward, DST will commence on the second Sunday in March (three weeks earlier than previously) and end on the first Sunday in November (a one week extension).

This is mandated by the Energy Policy Act of 2005. For more information regarding the Energy Policy Act of 2005, refer to the Department of Energy Web site:

http://www.energy.gov/about/EPAct.htm

Impact on Java

Sun has an article on the Sun Developer Network (SDN) about the Daylight Savings Time changes and their impact on Java applications:

http://java.sun.com/developer/technicalArticles/Intl/USDST/

Fixes to the timezone data in the JRE are automatically available with version 1.4.2 SR6.

Impact on U2

U2 Web DE and the U2 data server Clients include a JRE. The versions available today currently ship with versions that are older than version 1.4.2 SR6. Nonetheless, no issues exist with the data server clients or U2 Web DE as these programs do not make use of the time functions in Java.

U2 data servers (UniData and UniVerse) and other tools and components, including SystemBuilder and wIntegrate, are not affected as they do not ship a JRE nor do they make calls to any time functions from a JRE.

Impact on Customer Java Applications

If any of your Java applications running in a JRE older than version 1.4.2 SR 6 use time functions, they may report incorrect time during the extended period of daylight savings time starting in March 2007.

Solutions

To resolve this issue for your Java applications, you can do one of the following:

Obtain an updated version of the SDK from Sun and use its JRE. Apply the [Java Time Zone Update tool](#) to any older JREs that you use

The [Java Time Zone Update tool](#) will update the timezone data found in the installed JRE.
Please check with your operating system vendor for the impact of these changes to the operating system.