

Ezenia InfoWorkSpace

Technical Bulletin TB07-005

Change Request: NA

Title: Impact of changes to daylight saving time (DST) rules on the Oracle database

Platform	Version	Operating System	Category
Server	2.5x	Windows & Solaris	Oracle

Description:

Under the Energy Policy Act of 2005, passed by US Congress and then signed into law by President George W. Bush on August 8, 2005, the start and end dates of Daylight Saving Time (DST) in the US have been changed, starting in 2007. These Oracle patches addresses possible changes that might be needed to the Oracle database because of these changes to DST rules. Impact on a system is low; however, the only way to eliminate risk is to patch your systems.

In Oracle 8i there are no TIMESTAMP data types, which means that there are no data types with built-in knowledge of time zones. Therefore there is no Oracle time zone file patch to be applied to version 2.5x InfoWorkSpace servers.

The Oracle Java Virtual Machine (OJVM) was introduced into the Oracle 8i database and uses time zone information embedded in the OJVM in the database itself. However, although a patch exists for version 8.1.7.4, applying the patch to your InfoWorkSpace version 2.5x server with Oracle 8.1.7.4 installed, corrupts the CredentialManager and the following exceptions are reported:

```

CreateDefaultNodes: error creating the iws folder
oracle.ifs.common.IfsException: IFS-10110: Unable to construct directory service
oracle.ifs.common.IfsException: IFS-10140: Unable to instantiate credential manager Ifs
oracle.ifs.common.IfsException: IFS-10150: Unable to construction credential manager
(oracle.ifs.server.IfsCredentialManager)
oracle.ifs.common.IfsException: IFS-10176: Unable to get credential manager version
java.sql.SQLException: Io exception: End of TNS data channel
    
```

Following Oracle's Note 156852.1 IFS-10110 Unable to Construct Directory Service When Starting/Accessing iFS does not resolve this issue.

Action:

None. There is no workaround at this time.

Oracle relies on the system clock for functions like SYSDATE; therefore you need to make sure the system time is changed on the correct date by applying Operating System patches. Refer to Technical Bulletin TB07-002 for information regarding Operating System patches.

For technical support, please contact Ezenia Customer Support
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