Deployment of the Oracle database collation "INFOR_GENERIC_M"

Created: June 2007
Last modified: March 2014
Reference solution: 22853480

Introduction
An INFOR LN installation on Oracle in Unicode mode configures the Oracle collation "GENERIC_M".
This is a linguistic multi character set collation.
Unfortunately this collation does not match the Unicode Collation Algorithm (UCA) used within the Infor porting set. Using the GENERIC_M collation cause severe problems in leading spaces in sessions dealing with item segmentation

Unicode Collation Algorithm
UCA definition http://www.unicode.org/reports/tr10
UCA conformance test : http://www.unicode.org/Public/UCA/latest

Because such enhancement is still not available at Oracle 11, Infor created a temporary modified collation called:

"INFOR_GENERIC_M"
In March 2007 we logged an enhancement request at Oracle for an UCA compliant collation. The related Oracle bug# is: 5946319. For Oracle 12, UCA will be supported.

To avoid such incompatibility problems between Oracle and UCA, a modified collation has been created that moves some punctuation characters (like space) in the weight tables.
Deployment procedure for "INFOR_GENERIC_M"
Prerequisites:

- Oracle 11
- Oracle account
- Please verify that the connection parameters like ORACLE_HOME and ORACLE_SID are set correctly.
- **Backup** the contents of the *$ORACLE_HOME/nls/data* directory

Installation steps:

1. **Create a new empty directory (on the RDBMS host)and copy following items:**

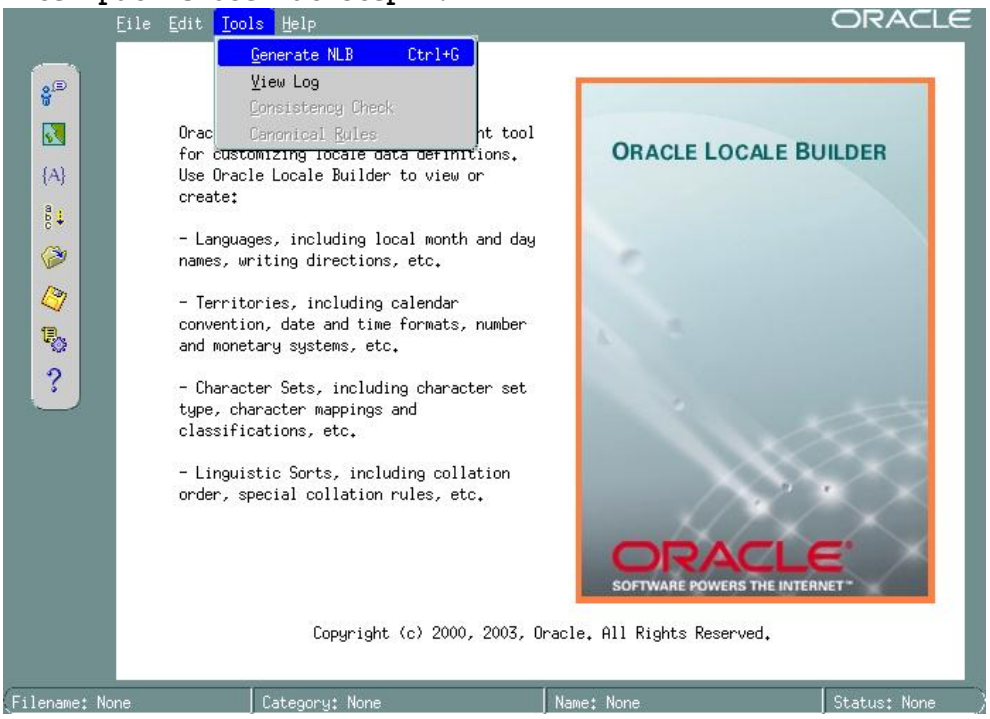
2. **"lx32775.nlt" provided by Infor ,**

3. **From (*$ORACLE_HOME/nls/data)***

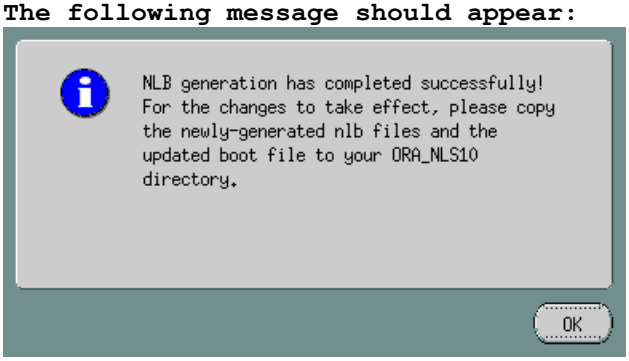
   "lx207d0.nlb"
   "lx0boot.nlb
   "lx1boot.nlb
   #

4. **Start Oracle Locale Builder (*$ORACLE_HOME/bin/lbuilder)***

5. **Run the command *Generate NLB***
   You will be prompted for a local directory where reside the NLT file(s).
   Enter path chosen at step 1.



6. **Press OK.**
   The following message should appear:



7. **The directory created at step 1 will now contain**

   06/05/2008 04:51 PM 14,581 lx.dtd
   06/05/2008 04:51 PM 128 lx0boot.nlb

06/05/2008 04:51 PM 463 lx0boot.nlt
06/05/2008 04:51 PM 22,328 lx1boot.nlb
12/21/2007 11:25 AM 307,503 lx207d0.nlt
06/05/2008 04:51 PM 58,584 lx32775.nlb
06/05/2008 03:30 PM 50,474 lx32775.nlt
(Sizes can slightly differ from site to site...)

8. Shutdown the database, and copy with overwrite newly-generated files into the standard NLS files directory. ORA_NLS10
"$ORACLE_HOME/nls/data"

9. Restart the instance.

Note: Because nls sort has been changed, the indexes must be created according to the new nls_sort value, Rebuild all indexes having a text part
Because in UNICODE mode, most Oracle indexes are function-based Indexes that rely on the output of the NLSSORT() builtin SQL function, and that by applying the solution this function will give completely different output than previously, all indexes must be dropped and recreated.
The "ALTER INDEX index_name REBUILD ONLINE;" has been discouraged by Oracle support as it might not re-evaluate the NLSSORT() function, but reuse the existing (and thus wrong) key information.

To rebuild all indexes start session: *Reorganize Tables*(ttaad4225m000) with checkbox Repair Indices Only