Verde KnowledgeBase

Elsevier ScienceDirect Fix

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1 Introduction

In the past months, Ex Libris has been working with Elsevier to clean up, expand, and improve their representation in the SFX and Verde KBs. In the December 2007 KB packages, new vendor holding files were used to refresh the SFX and Verde KBs, removing out-of -date records and adding new sub-targets. In the process, we replaced existing Object Portfolios with new records. This was done to align the SFX and Verde KBs with the contents of Elsevier ScienceDirect packages as provided by Elsevier.

During the December Verde KB update, new constituents replaced the out-of-date Elsevier ScienceDirect constituents. As in SFX, the new constituents were created with inactive status and without local information that existed on old constituents. This information must be restored.

This document describes the procedure to run the parallel fix in Verde.

The fix should be applied by customers that have already applied the Verde December KB update. Customers who have not done so, will have to run the fix right after applying the December KB in Verde.

We apologize for the inconvenience and thank you for your cooperation.

2 Before Running the Fix on Verde

Back up your database prior to running the fix script.

Verify that local data of Elsevier objects is correct and complete on your SFX installation. If you detect incomplete localization of data, rerun the SFX fix. If you have not run the SFX fix yet, do so before you apply the fix in Verde.

Make sure Verde and SFX are up and running.

3 Solution Description

The fix scripts will be installed on your server as part of the January Service Pack, under the following directory: /exlibris/verde/v2_x/verde/home/bin/system/sciencedirect_fix (where x represents the slot number where Verde is installed).

3.1. Script Files

Under the above directory, you will see the following files that were installed by the service pack:

setup_fix_ca1.sh – Script that creates the basic configuration file

test_fix_ca1.sh – Script that runs in report mode, without making any actual change to the Verde database

run_fix_ca1.sh – Script that runs the fix while changing the Verde database

sfx_ids.dat – Input file for the program. Lists all potentially damaged entities

mysql.jar – Driver to SFX MySql database

verdef.jar – File that contains the fix program

3.2. Input Files

The solution is based on the following input files:

- Text file that lists the SFX IDs of all portfolios that are part of the Elsevier ScienceDirect packages
- Configuration file that maps the Verde instances to database parameters of the SFX MySQL database
- Execution file that runs the solution algorithm

You are required to run a special setup script that creates the configuration file on the fly with default values (when available) and to fill in other necessary information (see Sections 4.1 4.2 Setup Script Parameters). If needed, you should change the default values provided in the configuration file.

After setting the configuration, you can choose to run a test program or the actual fix. The test program creates a report of the expected results of the process, without making any change to the database. You may also decide to run the actual fix program, which will restore the local data that was lost by the KB update.

3.3. Output Files

The fix program will create the following output files:

- **fix_log.log** – Log file that shows details of the information handled by the fix program
- **fix_report.txt** – Text file that that shows which e-products were changed and the changes made

3.4. Algorithm

The program the program takes the comparison file (from old IDs to new IDs) to perform the following actions:

1. Finds all e-products in Verde that hold old SFX ID and were not deleted during December LKB update

2. Finds all the corresponding e-products that were added during the December LKB update
3. Moves all attributes from old e-products (that are mistakenly marked now as "withdrawn by publisher") to the new ones
4. Retrieve the activation information from SFX
5. Re-indexes both the old and the new e-products

4 Applying the Fix

4.1. Setup Script Structure

This script should be executed once at the beginning of the setup. It creates a configuration file called **fix_configuration.cfg**. To run the setup script and create the configuration file, go to the fix directory (/exlibris/verde/v2_x/verde/home/bin/system/sciencedirect_fix) and type **./setup_fix_ca1.sh**

The configuration file contains a repeated structure for each Verde instance (except for CKB) so, for example, if the Verde installation has instance TST and another instance PROD, the file will contain the following lines:

```
Verde instance code:TST
-------------------------------------
SFX Database host:your_sfx_server
SFX Database port:3309
SFX Database name:
SFX Database user name:
SFX Database password:
[END]

Verde instance code:PROD
-------------------------------------
SFX Database host:your_sfx_server
SFX Database port:3309
SFX Database name:
SFX Database user name:
SFX Database password:
[END]
```

You must fill in all relevant information in order for the fix to work properly.
If not all parameters are filled for a certain instance, the program will not be able to check the activity status in SFX for that instance and will assume the e-product to be inactive.

If the wrong SFX database parameters are given for a certain instance or if the database connection to SFX can not be established, the program will give an appropriate message and exit.

4.2. Setup Script Parameters

SFX Database host – Machine address where the SFX MySQL database resides. By default, the setup script looks for the server value defined for the sync with SFX. It is possible that the SFX database resides on a different server; in this case you must enter the correct address.

SFX Database port – SFX MySQL port. By default, it is 3309, but if you have made any changes in your SFX installation configuration, you must change the value accordingly.

SFX Database name – Holds the SFX database name.

SFX Database user name – Holds the SFX database username.

SFX Database password – Holds the SFX database password.

4.3. Run in Report Mode

The test script provides the ability to examine the required changes to the Verde database without actually making them. It produces the same outputs like the "real" fix program, so you can first view the report and decide whether the potential changes are satisfying or not before running the "real" fix.

As the script does not update the database, you can safely execute it multiple times.

To run the fix script **in report mode**, go to the fix directory: (/exlibris/verde/v2_x/verde/home/bin/system/sciencedirect_fix) and type **./test_fix_ca1.sh &**

Remember to use the '&' sign because the process might take a long time to finish (depending on the installation size). Approximate run time is 30 minutes per instance.

4.4. Run the Fix Script

This fix script performs the required changes to the Verde database. It operates just like the test program but this time actually makes changes to the database.

To run the fix script, go to the fix directory: (/exlibris/verde/v2_x/verde/home/binsystem/sciencedirect_fix) and type **run_fix_ca1.sh &**

Remember to use the '&' sign because the process might take a long time to finish (depending on the installation size). Approximate run time is 30 minutes per instance.

4.5. Fix Output

The output report is very important because it can show you how e-constituents of Elsevier ScienceDirect packages will be affected by the fix (if you run in report mode) or how they were affected if the actual fix script was run. The output file will display the activation status for every constituent, in addition to other e-product information (such as attributes and local coverage) that might have been restored.

The report file is called fix_report.txt and can be found under the same directory as the fix script.

The report uses the following columns:

Moved attributes – Lists the number and type of attributes that were moved from old constituents to their corresponding new constituents

Instance code – Represents the instance code the e-product belongs to

New e-product code – Code of the new e-product that was added during December KB update

Old e-product code – Code of the old e-product that was withdrawn

New e-product activation – States if the e-constituent is active or not after the fix was applied

See the example below:

```
Redirected attributes   Instance code   New e-product code      Old e-product code              e-product activation

----------------        TST             CEP_1196261049930_31940 CEP_1123336980549_758070        Active
----------------        TST             CEP_1196261048796_31931 CEP_1123336979226_757994        Active
----------------        TST             CEP_1196261051075_31948 CEP_1123336978093_757931        Active
----------------        TST             CEP_1196261050690_31945 CEP_1123336979260_757996        Active
----------------        TST             CEP_1196261049544_31937 CEP_1123336978147_757934        Active
----------------        TST             CEP_1196261051241_31949 CEP_1123336978076_757930        Active
----------------        TST             CEP_1196261049288_31935 CEP_1123336978164_757935        Active
----------------        TST             CEP_1196261048916_31932 CEP_1123336978181_757936        Active
----------------        TST             CEP_1196261050954_31947 CEP_1123336979279_757997        Active
2 Local Coverage        TST             CEP_1196260946116_31097 CEP_1123336980095_758044        Active
1 Breach
1 Cost
2 Access
1 Admin
1 e-product Library
1 Incident
1 License
1 Local Embargo
1 Subscription
1 Usage
 Sponsoring library
 Library contact
2 Subscription          TST             CEP_1196261051406_31950 CEP_1123336980232_758052        Active
----------------        TST             CEP_1196261049663_31938 CEP_1123336978130_757933        Active
----------------        TST             CEP_1196261050271_31942 CEP_1123336979485_758009        Active
~
```

In this example, you can see that all e-products were assigned an **active (production)** status.

In addition, for the tenth e-product in the list, Verde restored local data (such as two local coverage records, one breach record, two subscriptions, etc.).