Verde KnowledgeBase
Net Library Cleanup

Ex Libris The bridge to knowledge

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Introduction

During the past few months, Ex Libris has worked on cleaning up the content of the Net Library package, which included adding new portfolios and improving their representation in the SFX and Verde KnowledgeBase.

Until now, each Net Library e-book has been represented in the SFX and Verde KB by two objects/workexpressions and two object portfolios/e-constituents. One workexpression contained the e-ISBN and the other, the ISBN, and each of the two e-constituents was connected to the appropriate workexpression.

The December CKB update will:

- merge data from duplicate workexpressions into one record that includes both the e-ISBN and ISBN

- transfer e-constituents to the updated workexpressions

- remove duplicate e-constituents

- add new e-constituents to the Net Library package

For this service pack, a fix was created in order to transfer local data from duplicate (deleted) e-constituents to their corresponding e-constituents in the SFX/Verde KB. This fix is automatically performed by the December LKB update. After the local data is transferred, the LKB update removes the duplicate e-constituents.

Note: Since the LKB update does not remove workexpressions, old workexpressions without associated e-constituents remain in the SFX/Verde KB.

This document details the algorithm used by the Net Library cleanup fix.

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Solution Description

SFX provides a file with 59702 pairs of e-constituents. The first e-constituent in a pair is removed by the December CKB update (referred as the deleted e-constituent). The second e-constituent in a pair corresponds to the deleted one (referred to as the target e-constituent).

The Net Library cleanup fix transfer local data from deleted to target e-constituents as follows:

- It copies e-product field values from deleted e-constituents and transfers these values to the target e-constituents.

- It transfers attributes.

The Net Library cleanup fix begins running after you apply the December LKB update and checks each pair of e-constituents. If a deleted e-constituent contains no local data, the program proceeds to the following pair. If a deleted constituent contains local data, the program checks whether the target e-constituent contains local data and proceeds as follows:

- If the target e-constituent contains no local data, the local data is transferred from the deleted e-constituent to the target e-constituent.

- If the target e-constituent contains local data, the program checks each e-product field and each attribute of both the deleted and target e-constituents, one by one, and proceeds as follows:

  - If the same attribute or e-product field exists for both e-constituents, data transfer is rejected.

    Example 1: If both the deleted and target e-products contain acquisition records, the acquisition records will not be transferred.

    Example 2: If both e-constituents have a sponsoring library, the data for the sponsoring library will not be transferred.

- If both e-products contain local data, but in different fields, the data is transferred. For example, if a deleted e-constituent has a selection status and a target e-constituent has an acquisition record, the selection status will be transferred.

The following table summarizes the algorithm that is used:

Deleted e-Product	Target e-Product	Result
Value exists	Empty	Local data transferred from deleted e-constituent to target e-constituent
Empty	Value exists	None
Value exists	Value exists	Data transfer rejected

Copied Data

e-Product Fields:

- Selection status
- e-Product status
- Activation from date
- Expiration date
- Concurrent number of users
- Sponsoring library
- Library contact
- Public note
- Internal note
- Holdings note
- ILS Holdings ID
- Free
- Libraries

Transferred Data

- Libraries
- Local coverage
- Local embargo

Attributes:

- Acquisition
- License
- Access
- Admin
- Breach
- Incident
- Cost
- Usage

Non-Transferred Data

- MetaLib ID
- Additional ID: ID Number
- Additional ID: ID Source
- Title key
- Suppress
- Workflow attribute

Possible Errors

- A value was not copied because there is an existing value in the target e-product.

  Example: Both the deleted and target e-products contain a selection status.

- An attribute was not copied because there is an existing attribute in the target e-product.

  Example: Both the deleted and target e-products contain acquisition records.

- A value was not copied due to a conflict with the e-package's data.

This error occurs if:

- The e-constituent is active while the e-package is inactive.
- The activation date of the e-constituent is before the activation date of the e-package.
- The expiration date of the e-constituent is after the expiration date of the e-package.

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Running the Net Library Cleanup Fix

Perform the following steps to run the Net Library cleanup fix:

1   Update the server with all the previous LKB updates (through November).

Note: Although the KB update wizard enables you to apply more than one KB update at a time, we suggest running the December LKB update separately.

2   Install the December SP. For more information about SP installation, refer to the *Verde Service Pack Installation Instructions* document.

3   Back up your database and ensure that no cron jobs that shut down Verde and/or Oracle are scheduled to be run during the LKB update. For more information about database backup, refer to section 2.1 of the *KnowledgeBase Update Process and Instructions* document.

4   It is recommended that you turn the archiving mode off. If the archiving mode is on, many unnecessary arch files, which consume a lot of disk space, are created during the LKB update.

   ▪   To verify the archiving mode status, use util O 7 3.

   ▪   If the archiving mode is on, turn it off using util O 7 2.

   ▪   To turn the archiving mode back on after the LKB update is complete, use util O 7 1.

5   Run the LKB update. For more information about the LKB update, refer to the *KnowledgeBase Update Process and Instructions* document.

The Net Library cleanup fix starts after you apply the December LKB update, before the LKB update process itself is run.

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Monitoring the Net Library Cleanup Fix

This section describes the log and output files created as a result of the Net Library cleanup fix.

Logs

LKBUpdate.log

A special fix that transfers local data from e-constituents that should be deleted to their corresponding e-constituents in the LKB is started before the LKB update process is run. When this fix begins running, the following lines appear in the `LKBUpdate.log` file:

```
Checking pre execution....
Pre execution of SaveData4KBCleanup has started.
For more details please see specific log: saveDataForKBCleanup.log
Changes report will created in the directory of LKB
Update reports
After completion LKB Update process will continue...
```

saveDataForKBCleanup.log

The `saveDataForKBCleanup.log` is created in the `vclog` directory (under `…/verde/home/system/log`).

```
Start running on Mon Nov 17 01:21:08 IST 2008
Run in update mode...
Created new reports folder
/exlibris/verde/v2_3/verde/home/data/reports//cleanup_17-11-2008-01.21
Loading input file ...
Input file loaded successfully with 59702 valid entries and 0 invalid entries
Run for all instances
Open report file: /exlibris/verde/v2_3/verde/home/data/reports//cleanup_17-
11-2008-01.21/report_TST.csv
```

In this log file, you can find information about each of the 59702 pairs of e-constituents. You can determine whether local data exists for an e-constituent and view the data transfer status for each e-constituent.

Note: This log reflects the data before the LKB update. During the LKB update, duplicate e-constituents (the first SFX ID in the pair) are removed and parts of titles related to target e-constituents are updated.

At the end of the log file, you can view the statistics:

```
Input        : 59702
Passed       : 59702
Failed       : 0
```

Example 1: No Data Exists for a Deleted e-Product

```
TST ( 59691 ): Title NO VALUE --> Title NO VALUE / SFX id 111005242983205 -->
SFX id 111004366338246
TST: No e-product's fields copied
TST: No attributes in the deleted e-product
```

Example 2: Local Data Exists for a Deleted e-Product and Is Successfully Transferred

```
    TST ( 57922 ): Title NO VALUE --> Title NO VALUE / SFX id
111090512822689 --> SFX id 111090862599140

    TST: ******* Local data *******
    TST: e-Product status --- Value copied: IMPL_1
    TST: Activation from date --- Value copied: 04/11/2008
    TST: Activation to date --- Value copied: 30/11/2008
    TST: Selection status --- Value copied: APPROVED
    TST: Private note --- Value copied: Internal note:
TST: Public note --- Value copied: Public note:
TST: Sponsoring Library --- Value copied: TST
TST: Main contact --- Value copied: ORGC_1226911166809_1
TST: Concurrent number of users --- Value copied: 12
TST: Holdings in ILS --- Value copied: 68684
TST: Holdings note --- Value copied: Holdings note:

    TST: ******* Attributes *******
    TST: Acquisition --- 1 records copied
    TST: License --- 1 records copied
    TST: Access --- 4 records copied
    TST: Admin --- 1 records copied
    TST: Cost --- 1 records copied
    TST: Usage --- 1 records copied
    TST: Incident --- 1 records copied
    TST: Breach --- 1 records copied
    TST: Libraries --- 1 records copied
    TST: Local Coverage --- 2 records copied
TST: Local Embargo --- 1 records copied
```

Example 3: Local Data Exists for Both Deleted and Target e-Constituents and Data Transfer Is Rejected for Part of the Local Data Because This Data Exists in the Target e-Product

```
       TST ( 54878 ): Title NO VALUE --> Title The Official Patient's
Sourcebook on Blastocystosis /
 SFX id 111056490989885 --> SFX id 111056491053841
      TST: No e-product's fields copied


       TST: ******* Attributes *******
       TST: Acquisition --- Attributes was not copied due to existing
attributes in the target e-product
       TST: License --- Attributes was not copied due to existing attributes
in the target e-product
       TST: Access --- Attributes was not copied due to existing attributes
in the target e-product
       TST: Admin --- Attributes was not copied due to existing attributes in
the target e-product
       TST: Cost --- Attributes was not copied due to existing attributes in
the target e-product
       TST: Usage --- Attributes was not copied due to existing attributes in
the target e-product
       TST: Incident --- 1 records copied
       TST: Breach --- Attributes was not copied due to existing attributes
in the target e-product
```

Output Files

Output files of the data transfer process can be found under …/`verde/home/data/reports`, in the directory named `cleanup_dd-mm-yyyy-min.sec`. One report is created for each instance in your environment.

The report contains the following information about all pairs in which the deleted e-constituent contains local data:

1 **Basic information about deleted and target e-constituents:**

  ■ Deleted title – the title of the deleted e-constituent

  ■ Deleted SFX ID – the SFX ID of the deleted e-constituent

  ■ Deleted code – the e-product code of the deleted e-constituent

  ■ Target title – the title of e-constituent to which local data from the deleted e-constituent should be transferred

  ■ Target SFX ID – the SFX ID of the e-constituent to which local data from the deleted e-constituent should be transferred

  ■ Target code – the e-product code of the e-constituent to which local data should be transferred

2   Copied e-product fields

If the value is not copied, **No change** appears in the output file. For a list of e-product fields, see page .

3   Transferred attributes.

The number of records, if attributes were transferred. If no attributes were transferred, **No change** appears in the output file. For a list of attributes, see page .

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Synchronization with SFX

To support the Verde-SFX synchronization, Verde and SFX must have the same KnowledgeBase update level when the sync processes are performed.

The December SFX KB update is delivered in three files. The following are the corresponding Verde KB files:

First SFX file

- `exported_workexp_and_eprod_01-12-2008.xml`

Second SFX file

- `exported_workexp_and_eprod_02-12-2008.xml`

- `exported_workexp_and_eprod_03-12-2008.xml`

- `exported_workexp_and_eprod_04-12-2008.xml`

Third SFX file

- `exported_workexp_and_eprod_05-12-2008.xml`

- `exported_workexp_and_eprod_06-12-2008.xml`

- `exported_workexp_and_eprod_07-12-2008.xml`

You can update the SFX KnowledgeBase with all three files and the Verde KnowledgeBase with all seven files in order to bring the databases to the same level. If you decide to apply the SFX update files one by one, the Verde KB update must be applied in the corresponding portions so that it will be at the same KB level.

For example:

- Portion 1: Apply SFX file #1 and Verde file #1, then work with Verde and SFX as usual (including synchronization).

- Portion 2: Apply SFX file #2 and Verde files #2, #3, #4, then work with Verde and SFX as usual.

- Portion 3: Apply SFX file #3 and Verde files #5, #6, #7, then work with Verde and SFX as usual.

To limit the Verde files after downloading them all to `$VERDE_BASE/home/data/import` using the wizard, quit the wizard and move the files you do not yet want to apply aside. (For example, for Portion 1, move Verde files #2-#7 aside; for Portion 2, return Verde files #2, #3, #4; for Portion 3, return Verde files #5, #6, #7.)