



ALEPH VERSION 19.01

How to Load OCLC Records into ALEPH

CONFIDENTIAL INFORMATION

The information herein is the property of Ex Libris Ltd. or its affiliates and any misuse or abuse will result in economic loss. **DO NOT COPY UNLESS YOU HAVE BEEN GIVEN SPECIFIC WRITTEN AUTHORIZATION FROM EX LIBRIS LTD.**

This document is provided for limited and restricted purposes in accordance with a binding contract with Ex Libris Ltd. or an affiliate. The information herein includes trade secrets and is confidential.

DISCLAIMER

The information in this document will be subject to periodic change and updating. Please confirm that you have the most current documentation. There are no warranties of any kind, express or implied, provided in this documentation, other than those expressly agreed upon in the applicable Ex Libris contract.

Any references in this document to non-Ex Libris Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Ex Libris product and Ex Libris has no liability for materials on those Web sites.

Copyright Ex Libris Limited, 2009. All rights reserved.

Documentation produced January 2008.

Document version 1.4

Web address: <http://www.exlibrisgroup.com>

Table of Contents

1	IMPORTING OCLC RECORDS INTO ALEPH	4
2	GENERAL WORK FLOW OF THE OCLC LOADER.....	17
3	OCLC FIX ROUTINES	19
4	ALEPH LOADING SERVICES	21
5	TROUBLESHOOTING	22

Note: This document focuses on importing MARC records from the OCLC bibliographic utility into ALEPH

1 Importing OCLC records into ALEPH

In order to import bibliographic and authority records from OCLC into ALEPH, you need to carry out the following steps:

Step	✓
1. Check the <code>tab_oclc</code> configuration file setup	
2. Check the <code>tab_merge</code> setup	
3. Check the <code>tab_match</code> setup	
4. Check the <code>tab_match_script_oclc</code> setup	
5. Check the <code>tab_loader</code> configuration file setup	
6. Check the <code>tab_loader_def</code> configuration file setup	
7. Check the <code>tab_mapping</code> configuration file setup	
8. Check the <code>tab_merge_overlay</code> setup	
9. Check the setup of OCLC Connexion for Windows / OCLC CatME for Windows / OCLC Passport for Windows	
10. Start the OCLC server	

After these steps have been carried out, importing can be performed.

Each step in the import process is described in the following pages.

We also recommend that you check the `$LOGDIR/oclc_server_XXXX.log` file periodically for errors (where XXXX defines the port number receiving the OCLC MARC records). This port number is specified for OCLC transfers in the user's OCLC Export Gateway.

The Export option in the OCLC Passport software (on the client PC) must be configured to point to:

- the correct IP address or domain name for this library
- the appropriate port number in `tab_oclc`. The port number is listed in Column 1 of the `tab_oclc` configuration file for ALEPH. See the `tab_oclc` example given under Step 1: Check the `tab_oclc` Configuration File Setup.

Likewise, if you are using the OCLC Connexion software, you must make sure that it is correctly installed and configured to point to the correct IP address or domain name for the library and to the appropriate port number in `tab_oclc`.

Based on position 9 of the LDR of the incoming record, ALEPH can determine if the record is in MARC-8 or in UTF-8 (UCS/Unicode).

According to the MARC format, position 9 of the LDR identifies the character coding scheme used in the record. If it is 'a', then the coding scheme is UTF-8 (UCS/Unicode). If it is anything else, then the coding scheme is MARC-8.

If position 9 of the incoming record contains 'a', the following instance in `tab_character_conversion_line` is used: `OCLC_UTF_TO_UTF`.

If position 9 contains something other than 'a', the following instance in `tab_character_conversion_line` is used: `OCLC_TO_UTF`.

Both character conversion definitions can be used in `tab_character_conversion_line`.

The incoming record is passed through fix routines specific to OCLC. Additional institution-specific fixes for incoming OCLC data can also be applied. These routines can be library-sensitive (for example, `XXX01` or `XXX10`). When loading OCLC bibliographic records, you can also set up the system to create item records and/or holdings records automatically upon import.

Step 1: Check the `tab_oclc` Configuration File Setup

The `tab_oclc` configuration table is located in the `$alephe_tab` directory:

1	2	3	4	5	6	7	8	9	10
7505	BIB	XBI01		12			OCLC	OCLC	
7505	AUT	XBI10					OCLC	OCLC	
7505	BIB	XBI01		2			OCLC	OCLC	

Key to `tab_oclc`

Each of the columns in the table above indicates how many characters the length of the column will contain. For example, column 10 can accommodate up to 20 characters if needed.

- ❑ Column 1 defines the port number receiving the OCLC MARC records.
- ❑ Column 2 indicates the record type being transferred (bibliographic or authority records).
- ❑ Column 3 specifies the destination database (bibliographic or authority) for incoming records.
- ❑ Column 4 specifies fix routines to be run from the Column 1 of the `tab_fix` table (see OCLC fix routines on page 19). The OCLC fix routine is always active and does not have to be defined in Column 4 of `tab_oclc`.
- ❑ Column 5 can include up to five special fixes. Currently, two (hard-coded) fixes are provided:
 1. Inserts the data from column 2 in `tab_loader` to the OWN field (`oclc_server_new_fix_1`).
 2. Modifies/creates 001 field using the data from column 2 in `tab_loader` and the record system number: `<Column 10 data>-<system number>` (`oclc_server_new_fix_2`). For example:

3. Modify/create 001 field using the record system number.
 Modify/Create OWN field base on column 2 in tab_loader.

If column 2 in tab_loader is empty, no OWN field will be created. If you want more than one special fix to be run, set up Column 5 as follows:

```

! 1      2      3      4      5      6 7      8      9      10
!!!!!!-!!!-!!!!-!!!!-!!!!!!-!-!- !!!!!!!- !!!!!!!-!!!!!!-!!!!!!
7505  BIB XBI01      12      OCLC      OCLC
    
```

This means that special fixes 1 and 2 will be run on incoming records.

- ❑ Column 6 - Not in use
- ❑ Column 7 - Not in use
- ❑ Column 8 - The value in column 8 indicates which routine from the tab_merge table will be used when a bibliographic or authority record in ALEPH is created or overlaid. **By default, the system performs merging according to the routines specified for the OCLC routine in the tab_merge table.**
- ❑ Column 9 is used to specify the match routine to be used to check the input file against the database. **Match routines are defined in the tab_match table of the library's tab directory.**
- ❑ Column 10 Not in use

Step 2: Check that OCLC routines are specified in the tab_merge table

The tab_merge table is located in the XXX01 library in the tab directory.

```

! 1      2      3
!!!!!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!>
OVERLAY-01 merge_doc_overlay      01
OVERLAY-02 merge_doc_overlay      02
OVERLAY-03 merge_doc_overlay      03
OVERLAY-04 merge_doc_overlay      04
RLIN      merge_doc_overlay      01
OCLC      merge_doc_overlay      03
TEST      merge_doc_overlay      03
HVD      merge_doc_adv_overlay      01
    
```

Key to tab_merge

The three columns in this table list the merge routines, the routines' program name and the programs' arguments (the section identifier of tab_merge_overlay and tab_merge_adv_overlay). The program for OCLC is merge_doc_overlay which calls a specific section of the tab_merge_overlay table (see Step 8 on page 15).

The OCLC server automatically refers OCLC records to the `tab_preferred` table. `tab_preferred` lists the table to use for setting which is the "preferred" document ("preferred" means the document into which the incoming record is merged).

In the OCLC server the preferred record is the record in the incoming load file. In order to change direction, add `preferred_doc_switch` to `tab_preferred`; it changes the direction of `merge_doc_overlay` (or `tab_merge_adv_overlay`) and switches between the preferred and the non-preferred records.

```
!1                2                3
!!!!!!!!!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!-!!!!!!!!!!!!>
AD-OVERLAY preferred_doc_cdl                union_preferred
OCLC        preferred_doc_switch            union_preferred
```

If the library does not want to determine which is the preferred record (that is, the incoming record is always merged into the database record), the table referred to in Column 3 of `tab_preferred` must be set to a name such as `db_always_preferred`, and accordingly, an empty table called `db_always_preferred` must exist.

The OCLC fix routines that are listed in `tab_fix` are discussed at the end of this document.

Step 3: Check the setup of the `tab_match` table

Verify that the `tab_match` table includes the OCLC match routine, the program name and the program arguments. It is located in the XXX01 library in the `tab` directory.

```
! 1                2                3
!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
YBP match_doc_uid                I-ISBN
YBG match_doc_gen                I-ISBN
RLIN match_doc_uid                T-020
!RLIN3 match_doc_uid                T-022
!OCLC match_doc_uid                T-020
OCLC match_doc_script                tab_match_script_oclc
MRCV match_doc_uid                I-909
!MRCV match_doc_script                tab_match_script_oclc
CAT match_doc_uid                I-ISBN
CAT match_doc_acc                tab_match_acc
P36 match_doc_acc                tab_match_acc
```

Key to `tab_match`

- ❑ Column 1 is the name of the match routine code. For loading OCLC records the match routine code is OCLC.
- ❑ Column 2 lists the match program used by the match routine. The program used by the OCLC match routine is `match_doc_script`.
- ❑ Column 3 indicates the program arguments. In this case the arguments are `tab_match_script_oclc` which is a table located in the `tab` directory.

Step 4: Check the setup of the `tab_match_script_oclc` table

Verify that the program arguments are set up correctly in the `tab_match_script_oclc` table.

In order to create `tab_match_script_oclc`, copy the header of `tab_match_script`, and save the new file as `tab_match_script_oclc`.

Note:
When displayed, this table's header name is `tab_match_script`

```
!1      2              3      4              5
!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!-!!!!-!!!!!!!!!!!!-!!!!!!!!!!!!!!!!!!!!>
01 match_doc_gen      1      goto 03      TYPE=IND, TAG=035##, CODE=035
01                    0+      goto 02

02 match_doc_gen      20-   goto 03
TYPE=ACC, TAG=245##, SUBFIELD=abdefgknp, CO
DE=TIT, TRUNCATION=Y
02                    20+   stop
```

Key to `tab_match_script_oclc`

This table contains five columns:

- ❑ Column 1 - the match set identifier
- ❑ Column 2 - the name of the match program. Currently there are two match programs and `match_doc_gen` is used for OCLC.
- ❑ Column 3 - refers to the number of records in the database that match the incoming record. You can specify an exact number, an upper number limit (*nn-*) or a lower number limit (*nn+*). `0+` indicates at least one match; `0` indicates no match.
- ❑ Column 4 - indicates the action to be taken where the condition of number of matched records is true. Supported actions are: `skip` (to skip to the next match set); `stop` (to stop script execution); `goto <xx>` (to jump forwards/backwards to a different match set `<xx>`; `<any text>` acts in the same manner as `skip`. The table above uses the `goto` and the `stop` actions.
- ❑ Column 5 lists the match program arguments. For the 01 match set, the program arguments are: `TYPE`, `TAG` and `CODE`. For the 02 match set, the program uses the `TYPE`, `TAG` + `SUBFIELD`, `CODE` and `TRUNCATION` arguments.

Step 5: Check the `tab_loader` configuration file setup in the XXX50 library

The ADM library table – `tab_loader` defines processing regarding the creation of the holding records, items, orders, budget transactions, and load information.

Key to `tab_loader`:

COL 1. – 049 Code – Holding code in tag 049\$\$a of incoming BIB record. If 049\$\$a is missing from the BIB input, the value entered in the batch service is taken into account.

COL 2. – OWN code for the bibliographic record.– Optional – The data entered in this column will be used for the OWN field of records added/updated by the OCLC server processes.

COL 3. OWN Group code – Optional, this column is used in order to group different OWN codes to a common code. This will be used when a library uses different 049 codes, and it creates a different OWN code for each 049 code. If no OWN group is defined, a separate BIB record will be created for each separate OWN code. If several OWN codes are assigned to the same OWN group, each OWN code is added to a single shared BIB record. The OWN group code is not written in the BIB record, it is used only in this table for grouping.

COL 4. – Item creation method. Possible values:

- 0 – Do not create items. This is the default value.
- 1 – Create item for new records only. The system will generate a barcode.
- 2 – Create first and additional items using the definitions in 949/852 fields.
If field is missing (or barcode is missing) the system will generate a barcode.
Create items even though BIB already has items.
- 3 – Create first items using the definitions in 949/852 fields. If field is missing or barcode is missing) the system will generate a barcode.
Does not create item if BIB already has items.
- 4 – Create first and additional items using the definitions in 949/852 fields.
If field is missing (or barcode is missing) don't create item. In this case ADM record will be Created.
Create items even though BIB already has items.
- 5 – Create first items using the definitions in 949/852 fields. If field is missing (or barcode is missing) do not create items. In this case ADM record will be created.
Do not create items if BIB already has items.

Item creation in the load is based on two fields in the BIB record:

- Field 949: \$\$a (for barcode), \$\$c (for Shelf list)
- Field 852: \$\$p (for barcode), \$\$a (for Shelf list)

An Item is created for every 949/852 field+Shelf list occurrence.

The uniqueness check is performed.

For the system generated barcode, the program looks for CSCR-OCLC-Z30-BARCODE in tab_checksum

COL 5. – HOL record creation method:

- 0 – Do not create HOL record. This is the default value.
- 1 – Create the first HOL for new records only.
- 2 – Create HOL records (check uniqueness with 852 \$\$b + \$\$c -if matching HOL record exists, a new one will not be created). Add information that is in brackets in 049 to 852 subfields k,m

- 3 – Create HOL records (check uniqueness with 852
 \$\$b + \$\$c –if matching HOL record exists, a new one will not be created).
 Do not add information that is in brackets in 049 to 852;
- 5 – Always create new HOL record.

The information for the HOL record is located in the ADM library table:
 tab_mapping.

- COL 6. – Order record creation method;
- 0 – Do not create Order record. This is the default value.
 - 1 – Create the first Order for new ADM record, or additional order for existing ADM record.

- COL 7. – Budget transaction creation method
- 0 – Do not create a Budget transaction record. This is the default value.
 - 1 – Create new Budget transaction records.

- COL 8. – Multi match bibliographical record load method
- 0 – Do not create bibliographical record. This is the default value.
 - 1 - Create new bibliographical record.

Sample of tab_loader setup:

```

      1          2          3          4 5 6 7 8
!!!!!!!!!!!!-!!!!!!!!!!!!-!!!!!!!!!!!!-!-!-!-!-!
NO-OWN                      3 3 1 1 0
WID          MASTER50       0 0 0 0 0
CUV7         MASTER50       1 1 1 0 1
  
```

The use of 949 is for vendors that supply extra item information in the input file.

The information in the vendor input file should be the same as for p_file_96.

The information for the holding records is located in tab_mapping table the minimum configuration should be for the holding's sublibrary.

The information in the table cannot contain hashes (#).

System-generated barcodes are created based on the definition of CSCR-OCLC-Z30-BARCODE in tab_checksum

There should be a single tab_loader table for all libraries that are using p_file_90 and all the 049 should be unique to the library.

Step 6: Check the tab_loader_def configuration file setup in the administrative libraries

tab_loader_def table is located in the administrative library's /tab/ directory and includes default values for fields in the items (Z30), orders (Z68), and budget transaction records (Z601) that are created using this service.

Z30-SUB-LIBRARY
Z30-COLLECTION
Z30-MATERIAL
Z30-ITEM-STATUS
Z30-CATALOGER
Z30-NO-LOANS
Z30-ALPHA
Z30-CALL-NO-TYPE
Z30-CALL-NO
Z30-CALL-NO-KEY
Z30-CALL-NO-2-TYPE
Z30-CALL-NO-2
Z30-CALL-NO-2-KEY
Z30-DESCRIPTION
Z30-NOTE-OPAC
Z30-NOTE-CIRCULATION
Z30-NOTE-INTERNAL
Z30-INVENTORY-NUMBER
Z30-INVENTORY-NUMBER-DATE
Z30-LAST-SHELF-REPORT-DATE
Z30-PRICE
Z30-DOC-NUMBER-2
Z30-SCHEDULE-SEQUENCE-2
Z30-COPY-SEQUENCE-2
Z30-VENDOR-CODE
Z30-INVOICE-NUMBER
Z30-LINE-NUMBER
Z30-PAGES
Z30-ISSUE-DATE
Z30-EXPECTED-ARRIVAL-DATE
Z30-ARRIVAL-DATE
Z30-ITEM-STATISTIC
Z30-ITEM-PROCESS-STATUS
Z30-COPY-ID
Z30-HOL-DOC-NUMBER
Z30-TEMP-LOCATION
Z30-ENUMERATION-A
Z30-ENUMERATION-B
Z30-ENUMERATION-C
Z30-ENUMERATION-D
Z30-ENUMERATION-E
Z30-ENUMERATION-F
Z30-ENUMERATION-G
Z30-ENUMERATION-H
Z30-CHRONOLOGICAL-I
Z30-CHRONOLOGICAL-J
Z30-CHRONOLOGICAL-K
Z30-CHRONOLOGICAL-L
Z30-85X-TYPE

For Z68 ORDER creation:

Z68-ORDER-DATE
Z68-E-TERM-PERCENT
Z68-ORDER-TYPE
Z68-ORDER-STATUS
Z68-ARRIVAL-STATUS
Z68-VENDOR-CODE
Z68-RUSH
Z68-DELIVERY-TYPE
Z68-ORDER-DELIVERY-TYPE
Z68-TARGET-FLAG
Z68-E-CURRENCY
Z68-METHOD-OF-ACQUISITION
Z68-SEND-METHOD
Z68-MATERIAL-TYPE
Z68-AUTO-CLAIM
Z68-ORDERING-UNIT
Z68-VENDOR-NOTE
Z68-INVOICE-STATUS
Z68-ORDER-NUMBER-1
Z68-ORDER-NUMBER-2
Z68-ORDER-GROUP
Z68-LIBRARY-NOTE
Z68-VENDOR-REFERENCE-NO
Z68-QUANTITY-TEXT
Z68-E-NOTE
Z68-E-TERM-PERCENT
Z68-AUTO-CLAIM

For Z601 BUDGET TRANSACTION creation:

Z601-BUDGET-NUMBER
Z601-ORIGINAL-SUM
Z601-CURRENCY
Z601-SEQUENCE
Z601-VENDOR-CODE
Z601-INVOICE-NUMBER
Z601-LINE-NUMBER
Z601-USER-NAME
Z601-OPEN-DATE
Z601-TYPE
Z601-NOTE
Z601-CREDIT-DEBIT
Z601-CURRENCY-RATIO
Z601-PAID

- Column 6 is where textual information may be entered. For example on line 1 in the table above the formula `s/BNGG/BXIMA/` instructs the system to substitute the text `XBIMA` for the text `BNGG` in subfield `b` of the 852 field when the data is coming from the subfield `a` in the 049 field of the OCLC record. On line 2 in the example above, the formula `s/BNGG/MAIN/` tells the system to substitute the text `MAIN` for the text `BNGG` in subfield `c` of the 852 field when the data is coming from the subfield `a` of the 049 field in OCLC. You can also append information using an `a` for append which adds a prefix/suffix to the input code. For example, this line in `tab_mapping`:

```
BNGD 050 a 852 b a/<foo_>/<_bar>
```

produces

```
foo_BNGD_bar as 852 subfield b.
```

- Column 7 is the overlay flag. If it is set to “Y” all incoming data will overlay any previous data. If it is set to “N” there will be no overlay of data
- Column 8 is the New Line Flag which can be set to “N” or “Y”. When it is set to “N” a new line is not created and, based on the value in column 7, data can be overlaid in the ALEPH Holdings record.

The `tab_mapping` file is essential for the automatic creation of holdings records during the import of OCLC records. The table above illustrates an institution with two OCLC holding code symbols (BNGG, the main library holding code and BNGD, the government documents holding code).

Step 8: Check the `tab_merge_overlay` configuration file setup

The `tab_merge_overlay` file defines which fields are retained when overlaying cataloging records in ALEPH. It is located in the `tab` directory in the `XXX01` library.

```
1 2 3          4
!!-!-!-!!!!!!
01 1 N #####
01 1 Y LDR
01 1 Y 001
01 1 Y 09###
01 1 Y 5####
01 1 Y 79###
.../...
```

Key to `tab_merge_overlay`

In the example above all the fields will be overlaid from the second to the first document.

Note that column 3 of the `tab_merge` table contains the merge set - from the `tab_merge_overlay` table - that is run when the merge routine in column 1 is selected. Column 8 of the `tab_oclc` table contains a merging routine that should match a routine from the `tab_merge` table (column 1).

- ❑ Column 1 has a default value of 01, but other values can be added for use with various batch services (see those that have been commented out with exclamation marks).
- ❑ Column 2 defines lines for the original record (value=1), the document into which fields are pasted, as well as defining the lines for the document from which the fields are copied (value=2).
- ❑ Column 3 determines what the final form of the bibliographic record includes. This is based on the fields from the original record, together with the fields from the copied record, depending on:
 - the following values: Y, N, or C as defined in the header for each field in Column 4;
 - which document the field is from in Column 2.
- ❑ Column 4 lists the OCLC MARC tag codes for the fields in the bibliographic record. The hash marks (#) in the above example indicate all tag codes.

Step 9: Check the OCLC Connexion for Windows Setup

OCLC Connexion

Connexion is a robust package of integrated cataloging tools and services. It has two interfaces; one in the browser and the other is a client system.

To set up the client system:

1. In Connexion, from General/Preferences/Export Options, select the TCP/IP Connection option.
2. Enter an external IP for the ALEPH server and a designated port (per `tab_oclc`).
3. Start the `oclc_server` from ALEPH. Do not forget to export records in MARC format.

More detailed information on setting up OCLC's Connexion is available from OCLC. (Try the URL: <http://www.oclc.org/connexion/default.htm>)

Step 10: Start the OCLC server

1. From the command prompt, select UTIL W (Server Management)
2. Choose option 3, Start Servers
3. Select option 7, Other Server and then option 3, OCLC Server
4. Accept the default port number unless you need to choose another

If you decide to monitor the servers under UTIL W/1, the OCLC server is listed as "Generic"

After steps 1 – 9 have been carried out, you can begin to import OCLC bibliographic records into ALEPH. Please note that any time you make changes to the tables described above, you must stop and restart the OCLC server.

2 General Work Flow of the OCLC Loader

After the OCLC server is running, the OCLC loader handles records as follows:

1. The loader looks for the `tab_loader` table which contains the holding code from field 049. The ADM library where `tab_loader0` resides is the ADM environment for the loading.
2. The loader looks for matching records using the section defined in `tab_oclc` (col. 9).
3. The loader filters the matched records according to the owner group from `tab_loader`, col. 9. It leaves only those records which have an OWN field that belongs to the OWN group as defined in `tab_loader`.
If there is more than one match, an error is returned.

If there is one matched record, then the loader merges the new loaded record with the existing one, adds a new OWN field, and saves it.

4. If there is no matched record, then the loader creates a new bibliographic record, adds an OWN field, and then executes the special fix routine defined in col. 4 of `tab_oclc`.
5. If you have configured `tab_loader` to create items, the OCLC loader creates an ADM record in the ADM library; otherwise, it is bypassed.
6. The OCLC loader creates an HOL record, according to the definitions in `tab_loader` and `tab_mapping`. The HOL library is determined using `tab_library_relation`.

The HOL fields are created using `tab_mapping` table.

The HOL record will not be written if a record already exists with the same 852 field with the following subfields: \$b, \$c, \$h, \$i, \$j, \$k, \$m, \$l.

7. The OCLC loader creates item record(s) according to the definitions in `tab_loader` and `tab_loader_def`.
The new item(s) will be linked to a HOL record if the later record's 852 \$b and \$c subfields match with the Z30-SUB-LIBRARY and Z30-COLLECTION fields of the first.
8. If an item with the same barcode already exists, no item will be created, but if the item does not have a HOL link then it will be linked to the HOL record if it exists. Again, the match is done by comparing subfields \$b and \$c of the 852 field with the Z30-SUB-LIBRARY and Z30-COLLECTION fields of the item.

Note:

If position 05 of the LDR field of the input record contains "d" or position 23 holds X'03', then the matching bibliographic record and all the associated administrative records will be deleted. A STA \$\$a DELETED will be added to the record.

However, if the record has any of the following records, it will not be deleted and appropriate error message will be displayed:

Loans (Z36)
Hold Requests (Z37)
Photocopy Request (Z38)
Acquisition Order (Z68)

3 OCLC fix routines

The OCLC server always looks for the presence of the OCLC fix routine in the `tab_fix` table. In the `tab` directory of both the XXX01 library and the XXX10 library, there are OCLC procedures that can be specified in the `tab_fix` table. Two of the programs are:

fix_doc_oclc- This program moves the OCLC 001 and 003 fields to the ALEPH (MARC 21) 035 field, in the following format: (003)001.

There are variations of this called `fix_doc_oclc_2` and `fix_doc_oclc_retain_001`.

fix_doc_oclc_2 - deletes pre-existing 035 fields. For authority records,

`fix_doc_oclc_2` adds the UPD field (Y or N).

fix_doc_oclc_retain_001 - retains the 001 field.

Only one of these two programs should be active.

Here is an example of OCLC `fix_doc` programs in a `tab_fix` table from a XXX01 bibliographic library (only contains lines relevant for OCLC):

```
! 1                2                3
!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!>
OCLC  fix_doc_tag_008_open_date
OCLC  fix_doc_non_filing_ind
OCLC  fix_doc_punctuation_usm
OCLC  fix_doc_005
OCLC  fix_doc_oclc_2
OCLC  fix_doc_usm_001
```

From a XXX10 authority library (only contains lines relevant for OCLC):

```
! 1                2                3
!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!>
!OCLC  fix_doc_tag_008
OCLC  fix_doc_oclc
```

In order to export these fix routines to the Cataloging GUI, refer to the `fix_doc.eng` table in the `$data_root/pc_tab/catalog` directory. This table defines the `fix_doc` routines that are included in the Cataloging module under the Edit menu/Fix record and the Edit menu/Derive record options. Here is an example of a `fix_doc.eng` setup:

```
! 1  2 3                4
!!!!-!-!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!>
04-01 N L Convert UNIMARC Records to USMARC Records
008  N L Update 008 field from 260 field
MAR  N L Generic fix
ANA  Y L Create a new Analytic record
AUT  Y L Create an authority record based on 1XX,4XX,6XX,7XX field
REF  N L Update heading from authority x-ref
HOLD N L Create local note in HOL rec.
OCLC N L OCLC fix
OCLC N L OCLC
```

Key to fix_doc.eng

- ❑ Column 1 lists the procedure code which is the unique code by which the system identifies the procedure. It must be a routine name defined in column 1 of the `tab_fix` table (UTIL M/11), such as `OCLC`.
- ❑ Column 2 defines whether a new record is going to be created when performing a fix routine, or if the current record is going to be fixed. The possible values are: Y = Open as a new record; C = Conditional Open as a new record - only active when the record has a system number (that is, not NEW); N = Fix current record.
- ❑ Column 3 is the alphabetic code and must always be set to L.
- ❑ Column 4 is the text that displays in the window when the user invokes the Fix record option or the Derive record option from the Cataloging module.

4 ALEPH Loading Services

4.1 Loader Logger: the Z73 Oracle table

The Z73 Oracle table stores information on the running of the MARCIVE (p-file-99) and OCLC loaders.. The log has a running number. This number also serves as the key of the Z73 table. The sequence has to be defined under Z52 of the Bibliographic library – “last-loader-log-no”.

Each message created by MARCIVE or OCLC loaders is saved in a different Z73 record.

Each message contains a type (I=Information/ S=success /F=Fail) and explanatory text. The text is defined under \$aleph_error_eng/generic_loader.

Note that a new Z73 log number will be generated for each record loaded via the OCLC server.

4.2 Load OCLC Records (file-93)

This service loads OCLC records in batch mode into the system without making use of the OCLC Server. This service can load both bibliographic and authority records. The service can create an output file that can be found later in the library's PRINT directory. The file has the same name as the input file.

The output file contains the following information:

Administrative library, OWN Field, Open Date, Log No., Action (Success, Failed or Information), Message information.

This information is also stored in the Z73 Oracle table (Loader Logger).

Note that a new Z73 log number will be generated for each file-93 batch run. For each loaded record in a specific run a new log sequence will be generated.

This is different from a record loaded via the OCLC server, in which case a new Z73 log number + log sequence will be generated for each record.

The parameters for this batch are:

Input File which should reside in the library's SCRATCH directory.

Fix Routine from tab_fix of the relevant library (Bibliographic or Authorities). Please note that the OCLC section in tab_fix is executed as well.

Special Fix Routine enables you to include up to 5 special fixes. Currently the following options are available:

- 1 - Creates OWN field, populated by the value set in col.2 of the tab_loader table.
- 2 - Modifies/creates 001 field using the value from col.2 of the tab_loader table and the record system number in the following manner: <Col.2 value>-<system number>

3 - Modifies/creates the 001 field using the record system number. In addition, it modifies/creates the OWN field based on col. 2 of the tab_loader table. If the column is empty, no OWN field will be created.

Match Routine from tab_match of the relevant library (Bibliographic or Authorities).

Merge Routine from tab_merge of the relevant library (Bibliographic or Authorities).

Produce Loading Report determines whether or not to produce a report regarding the current load.

Report File should hold the report's file name.

4.3 Produce Report for Loader Logger (file-94)

This service produces a report of records loaded from OCLC and MARCIVE loaders into ALEPH. The information generated in the report comes from the Z73 (Loader Logger) Oracle table.

The report contains the following information:

Administrative library, OWN Field, Open Date, Log No., Action (Success, Failed or Information), Message information.

The parameters for this batch are:

Output File will be found later in the library's PRINT directory.

Action Date From/To to retrieve all records that have been generated between the dates you enter here.

Log Number for which the report will be generated. If no number is entered, all logs will be included in the report.

ADM Library for which the report will be generated. If no ADM library is entered, all libraries will be included in the report.

OWN Field for which the report will be generated. If no OWN field is entered, all OWN field contents will be included in the report.

Report Format from a list of predetermined report formats.

Sort By determines the order by which the information to be sorted. Three sort options are available: ADM library, OWN field and Log Number.

5 Troubleshooting

You can use the OCLC server transaction log as a troubleshooting tool (similar to the PC server transaction log). The transaction log can be checked as follows:

```
oclc_server view <port> <number of last transactions>
```

This command can be used to view the transactions specified in the <number of last transactions> parameter.

```
oclc_server check <port> <transaction number>
```

This command can be used to replicate the transaction specified in the <transaction number> parameter.