



ALEPH VERSION 19.01

## How to Open a New ALEPH Site

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Please note that this document should *only* be used in conjunction with Service Pack 183 and later.

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# 1 Overview

This document describes how to open a new ALEPH site with the **open\_new\_aleph\_site (ONAS)** program.

This program can be used to open a complete new ALEPH environment for a new installation. Please note that if you need to open additional libraries in an existing (not new) site, use the **open\_new\_library** program and not the `open_new_aleph_site` program.

Opening a new ALEPH site means creating a new working environment for the ALEPH system – opening a suite of libraries and updating as much as possible the setup files. The types, codes and sizes of libraries to be opened are defined by the customer in a setup file.

The libraries of a new ALEPH site are created based on template libraries. The template used can be one of the standard demo libraries (for example, USM, UNI, MAB).

## 1.1 Supported ALEPH Site Models

The **open\_new\_aleph\_site** program supports the following ALEPH site models:

**Single-ADM** – a site with a single BIBliographic library with a single linked ADMInistrative library. Optionally the site can also include one or more AUTHority libraries, and the ADM can be linked to a single HOLDings, ILL and Course Reserves (CR) library.

**Multi-ADM** – a site with a single BIBliographic library linked to multiple ADMInistrative libraries. Optionally the site can also include one or more AUTHority libraries. Every ADM can be linked to an ILL and Course Reserves (CR) library. In terms of the HOLDings library there are two options – all ADM libraries can be linked to the same HOLDings library or every ADM has its own HOLDings library.

**BIB-only** – a site with a single BIBliographic library with no linked ADMInistrative libraries. Optionally the site can also include one or more AUTHority libraries and the BIBliographic library can be linked to a HOLDings library.

### Note concerning the USR and PW libraries:

In principle, the USR and PW libraries can each be defined as a separate library (together or each on its own). In some cases, the USR and PW libraries can be defined to be part of another library. In a multi-ADM site it is mandatory to have a separate USR/PW library/ies. In a single-ADM site the ADM library is usually defined to also serve as the USR and PW libraries (another common variation is to define the ADM library also as the USR library and have a separate PW library). In a BIB-only site, the BIB library can also serve as the USR and PW libraries.

# 2 Before activating the programs

The `open_new_aleph_site` program has two parameters:

- The three-character code of the template libraries.

The template libraries either be one of the DEMO library code (for example, USM or UNI)

In this document a three-character code is indicated by <TEM>.

A full library code uses the three-character code and two digits. The digits are indicated in this document by a 'XX' – for example, <TEM>XX or ATAXX.

- Input\_file name.

The input file should be in \$alephe\_scratch

## 2.1 Input file parameters:

Every library that should be opened for the new site should be defined in the input file, a line per library. For every library the following parameters are defined in five columns:

- Library type
- Library code
- Library size
- Library lib\_path
- Library x-path

These parameters are explained below:

### **LIBRARY TYPE (mandatory parameter)**

The first parameter defines the library type. The valid library types are:

- BIB – BIBliographic library
- AUT – AUTHority library
- ADM – ADMInistrative library
- HOL – Holdings library
- COURSE – Course Reserve library,
- ILL – ILL library
- USR – USR library
- PW – PW library

(Note that the Z105 library is always the ADM or USR library)

#### Conditions:

- BIB: (mandatory). Only one occurrence of BIB is allowed.
- AUT: (optional). Multiple occurrences are allowed
- ADM: (optional). Multiple occurrences are allowed

- **COURSE:** (optional). Every ADM can have a linked COURSE. The code of the Course must match those of the ADM both in the three-character code and final digits (refer to the following section on library codes).

Example:

<b>ADM</b>	<b>COURSE</b>
ABC50	ABC30
<b>XYZ50</b>	<b>XYZ30</b>
<b>XYZ51</b>	<b>XYZ31</b>

- **ILL:** (optional). Every ADM can have a linked ILL. The code of the ILL must match those of the ADM both in the three-character code and final digits (refer to the following section on library codes).

Example:

<b>ADM</b>	<b>ILL</b>
ABC50	ABC40
<b>XYZ50</b>	<b>XYZ40</b>
<b>XYZ51</b>	<b>XYZ41</b>

- **HOL:** (optional). If there is a single ADM only one HOL is allowed. If there are multiple ADM libraries then two situations are allowed:

All ADMs share a single HOL library

Every ADM can have its own HOL Library. The code of the HOL must match the code of the ADM in the three-character code and final digits (refer to the following section on library codes).

Example:

<b>ADM</b>	<b>HOL</b>
ABC50	ABC60
<b>XYZ50</b>	<b>XYZ60</b>
<b>XYZ51</b>	<b>XYZ61</b>

- **PW:** (optional). Only one occurrence of PW is allowed. PW serves for pw\_library. If PW is not defined, it will be defaulted to the USR library (if the USR is defined) or the ADM library if the USR library is not defined. If there is no ADM library (in a BIB-only site), the BIB library will be defaulted as the PW library.

- **USR:** (optional/mandatory). Only one occurrence of USR is allowed. In a multi-ADM site it is mandatory to define a USR library; it is

optional in a single-ADM site, in which case the ADM library is defaulted to the USR library; it is also optional in a BIB-only site in which case the BIB library is defaulted as the USR library.

**LIBRARY CODE (mandatory parameter):**

A five-character code should be used: three characters (xxx) followed by two digits.

Conditions:

The following digits must be used per library types:

- xxx00 – for USR and PW library type. This is true only for standalone USR/PW libraries. Note that if the USR/PW is also the ADM library (which can happen if there is a single ADM library), then the ADM digits will be used.
- xxx01-09 - for BIB library type.
- xxx10-19 – for AUT library type.
- Xxx40-49 – for ILL library type
- xxx30-39 – for COURSE library type.
- xxx50-59 – for ADM library type.
- xxx60-69 – for HOL library type.

As noted above, the codes of the HOL, ILL and COURSE libraries must match (in the three-character code and final digit) that of its linked ADM library.

**LIBRARY SIZE (mandatory parameter):**

The library size must be specified for every library code. The program accepts the following types:

VSMALL, SMALL, MEDIUM, LARGE, HUGE, DEMO

Choose the appropriate library size based on the expected number of bibliographic records that will be loaded to ALEPH:

- VSMALL - Up to 10,000 docs
- SMALL - Up to 100,000 docs
- MEDIUM - Up to 1,000,000 docs
- LARGE - Up to 5,000,000 docs
- HUGE - Larger than 5,000,000 docs
- DEMO – used by demo libraries only

The program uses the library size defined to create the “file\_list\_size” parameter (in \$data\_root/prof\_library of the library). This parameter is used to create the appropriate default file\_list.

Note that all tablespaces required for the library type/sizes must be defined BEFORE the ONAS script is run.





BIB,TET01,VSMALL,,X-PATH  
 AUT,TET10,VSMALL,,X-PATH  
 AUT,TET12,VSMALL,,X\_PATH  
 HOL,TET60,VSMALL,,X\_PATH  
 ADM,TET50,VSMALL,,X\_PATH

The file can be created in Excel and exported in comma-delimited format and then ftped to the server.

## 2.2.1 Examples of input\_file:

### Example 1

LIBRARY TYPE	LIBRARY CODE	LIBRARY SIZE	LIB-PATH	X-PATH
BIB	ABC01	MEDIUM		
AUT	ABC10	MEDIUM		
AUT	ABC12	SMALL		
ADM	ABC50	MEDIUM		
HOL	ABC60	MEDIUM		
COURSE	ABC30	SMALL		
ILL	ABC40	SMALL		

\* Single ADM setup, where ADM library is USR and PW library, there is no X-PATH and LIB-PATH is \$aleph\_dev

### Example 2

LIBRARY TYPE	LIBRARY CODE	LIBRARY SIZE	LIB-PATH	X-PATH
BIB	ABC01	MEDIUM	/exlibris2/aleph/u18_1	
AUT	ABC10	MEDIUM	/exlibris2/aleph/u18_1	
AUT	ABC12	SMALL	/exlibris2/aleph/u18_1	
ADM	ABC50	MEDIUM	/exlibris2/aleph/u18_1	
ADM	XYZ50	MEDIUM	/exlibris2/aleph/u18_1	
HOL	ABC60	MEDIUM	/exlibris2/aleph/u18_1	
COURSE	ABC30	SMALL	/exlibris2/aleph/u18_1	
COURSE	XYZ30	SMALL	/exlibris2/aleph/u18_1	
ILL	ABC40	SMALL	/exlibris2/aleph/u18_1	
ILL	XYZ40	SMALL	/exlibris2/aleph/u18_1	

LIBRARY TYPE	LIBRARY CODE	LIBRARY SIZE	LIB-PATH	X-PATH
USR	ABC00	MEDIUM	/exlibris2/aleph/u18_1	
PW	PWL00	SMALL	/exlibris2/aleph/u18_1	

\* Multi-ADM setup, where there is a single HOL for all; every ADM has its own COURSE and ILL; there is no X-PATH and LIB-PATH is /exlibris2/aleph/u18\_1;

### Example 3

LIBRARY TYPE	LIBRARY CODE	LIBRARY SIZE	LIB-PATH	X-PATH
BIB	ABC01	MEDIUM		/exlibris3/aleph/u18_1
AUT	ABC10	MEDIUM		/exlibris3/aleph/u18_1
AUT	ABC12	SMALL		/exlibris3/aleph/u18_1
ADM	ABC50	MEDIUM		/exlibris3/aleph/u18_1
ADM	XYZ50	MEDIUM		/exlibris3/aleph/u18_1
HOL	ABC60	MEDIUM		/exlibris3/aleph/u18_1
HOL	XYZ60	MEDIUM		/exlibris3/aleph/u18_1
COURSE	ABC30	MEDIUM		/exlibris3/aleph/u18_1
COURSE	XYZ30	SMALL		/exlibris3/aleph/u18_1
ILL	ABC40	SMALL		/exlibris3/aleph/u18_1
ILL	XYZ40	SMALL		/exlibris3/aleph/u18_1
USR	ABC00	MEDIUM		/exlibris3/aleph/u18_1

\* Multiple ADM setup, where there is a separate HOL and separate COURSE and ILL for different ADMs;

LIB-PATH is \$alephe\_root; \$data\_file and \$data\_scratch directories will be located under /exlibris3/aleph/u18\_1;

USR library is a PW library

<Please note that a setup where PW library is defined and USR library is not defined is invalid>

## 3 Activation

### 3.1 Syntax

The syntax of the 'open\_new\_aleph\_site' command is as follows:

*ssh -f \$Saleph\_proc/ open\_new\_aleph\_site*

There are two activation modes for opening the library:

### 3.1.1 Batch Mode

Batch mode – provide parameter values. If you enter all parameters, the system will not prompt you to enter values.

*ssh -f \$Saleph\_proc/ open\_new\_aleph\_site <input\_file\_name><template code>*

Examples:

*ssh -f \$Saleph\_proc/ open\_new\_aleph\_site param\_files USM*

*ssh -f \$Saleph\_proc/ open\_new\_aleph\_site param\_files ATA*

param\_files – input\_file located in \$Salephe\_scratch

USM/ATA – template libraries to be used

### 3.1.2 Interactive Mode

If you do not enter any of above parameters, the program will work in interactive mode and you will be prompted for each of the missing parameters.

Examples:

*ssh -f open\_new\_aleph\_site*

*Enter input file (needs to be in /exlibris/aleph/u17\_2/alephe/scratch): param\_files*

*Enter three-character code of the template library: USM*

## 4 Open New ALEPH Site Updates

In addition to opening the libraries, the ONAS program updates the following setup files:

- In the \$Salephe\_root/**aleph\_start** file:  
UPDATE **www\_base** parameter:
  - -if DEMO libraries are used as a template – BIB library code is inserted  
(for example, **www\_base** "ABC01" )
- In the \$Salephe\_root/aleph\_start.private file:
  - -UPDATE **pw\_library**, **usr\_library**, **z105\_library** based on the libraries in the input file
  - -ADD new libraries with their **LIB\_PATH** to
  - **setenv xxxnn\_dev**  
**{USER\_MOUNT}/u\${ALEPH\_VERSION}\_\$ALEPH\_COPY**
  - -ADD new libraries to **ALEPH\_LIBS** and **QUE\_STARTUP\_LIBS**

- -ADD new libraries of type BIB or ILL or COURSE to WORD\_STARTUP\_LIBS
- -ADD new libraries of type BIB to ACC\_AUT\_STARTUP\_LIBS
- -ADD new libraries of type ADM to REQUEST\_STARTUP\_LIBS
- UPDATE /alephe/tab/tab\_system\_status
- ADD new libraries at the end of /alephe/tab/library\_relation
- ADD new libraries at the end of /alephe/tab/tab\_library\_group
- ADD new libraries at the end of /alephe/tab/tab\_oclc
- ADD at the end of /alephe/tab/tab\_base.lng:

If DEMO libraries are used as a template:

- Col. 1 <BIB library>
- Col. 2 blank
- Col. 3 <BIB library> OPAC
- Col. 4 <BIB library>
- Col. 5 blank
- Col. 6 blank
- Col. 7 <BIB library>
- Col. 8 N
- Col. 9 blank

For example

```

!          1          2          3          4          5          6          7          8
9
!!!!!!!!!!!!!!!!!!!!!!!!!!!!-!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!-!!!!!!-!!!!!!-!!!!!!-!!!!!!-!-
!!!!!!!!!!!!>
TET01          TET01 OPAC          TET01          TET01 N

```

Adds all libraries as defined in the input file

- REPLACE in lib01/pc\_tab/catalog/scancode.dat :
  - Puts matching AUT libraries from the input file into LOCAL line
  - Activates UTIL/M/7 to Update Tables Package
- REPLACE in lib01/tab/tab\_locate/COL.1:
  - Puts matching AUT library from the input file into col1
- REPLACE in lib01/tab/tab\_aut/COL.3/4:
  - Puts matching AUT library from the input file into cols 3, 4,5, 6
- REPLACE in aut/tab/tab\_z105/COL.3:
  - Puts BIB library from the input file into col. 3
- REPLACE in lib01/tab/tab\_rlin:

- Puts matching AUT libraries from the input file into col.2 if COL.2 = AUT,
- CREATE in lib01/tab/
  - Creates 'edit\_doc\_999' files for every AUT library, defined in the input file.
- ACTIVATE UTIL/H/2 in every new library
- UPDATE in alephe/tab/tab100:
  - ILL-MODE = 2

## 5 Checking Your New Libraries

The following steps are intended to ensure that the new libraries were s opened correctly. It is recommended to check at least one of the newly opened libraries

### To check your new libraries

1. Log out, and then log in. This implements all the changes / definitions that were made in the configuration tables.
2. From the command line, enter:

```
dlib <lib_name>
dr
ls
```

3. Check if the library contains the directories copied from the template library.
4. Check if all occurrences of the template library in prof\_library were replaced with the current one.
5. If you have selected to create an Oracle user, enter the following in the command line:

```
s+ <lib_name>
```

You should get the prompt:

```
SQL-<lib-name>
```

Then enter:

```
SQL-XXXXNN>desc z00;
```

You should get:

Name	Null?	Type
Z00_DOC_NUMBER	NOT NULL	CHAR(9)
Z00_NO_LINES		NUMBER(4)
Z00_DATA_LEN		NUMBER(6)
Z00_DATA		

6. Exit by entering:

```
SQL-<lib-name> > exit
```

## 6 Additional Manual Actions following Activation of ONAS

You must log out and then log in before you proceed (unless you already did so due to section 5 Checking Your New Libraries above) with the following actions in order to implement all the changes and definitions that were made in the environment, and to perform:

```
dlib xxxnn
```

### 6.1 Oracle Tables and Tablespace (file\_list and prof\_library)

The ONAS script creates an empty \$data\_root/file\_list (that is, the file is created with no content). In this case all Oracle objects will have the default attributes. If the library requires a different value for a specific Oracle object, it must be added manually to the file\_list to override the default value.

Open file\_list for editing by entering the following in the command line:

```
dlib xxxnn
dr
vi $alephe_file_list
```

If you want to use tablespaces other than the default, you must edit prof\_library.

Open prof\_library for editing by entering the following in the command line:

```
dlib xxxnn
dr
vi prof_library
```

and modify the following commented lines accordingly:

```
#      setenv   file_list_TS1D      ts_XXXXXX_1D
#      setenv   file_list_TS2D      ts_XXXXXX_2D
#      setenv   file_list_TS3D      ts_XXXXXX_3D
#      setenv   file_list_TS4D      ts_XXXXXX_4D
#      setenv   file_list_TS1X      ts_XXXXXX_1X
#      setenv   file_list_TS2X      ts_XXXXXX_2X
#      setenv   file_list_TS3X      ts_XXXXXX_3X
#      setenv   file_list_TS4X      ts_XXXXXX_4X
```

XXXXXX can be any valid name. Please note that the same tablespace can be shared by several libraries.

Do not forget to remove the # in the beginning of the line.

In addition, you must ensure that these tablespaces exist (using UTIL/A/17/12) and, if necessary, create them (using UTIL/O/17/1).

If you have modified the file\_list, or the tablespaces to be used by the library, you must activate UTIL/A/17/1/all to make the changes effective.

## 6.2 loop\_length

The program sets all the loop\_length variables (defined in prof\_library) to 50,000.

If you want to use different values, you must edit prof\_library.

Open prof\_library for editing by entering the following in the command line:

```
dlib xxxnn
dr
vi prof_library
```

## 6.3 Updating Configuration Tables

The following tables should be modified as appropriate:

### 6.3.1 tab\_sub\_library.lng

The tab\_sub\_library.lng table defines the sublibraries of all the ADM libraries on the server.

Open tab\_sub\_library.eng for editing by entering the following in the command line:

```
vi $alephe_tab/tab_sub_library.eng
```

If your system is configured for languages other than English, the additional copies of the tab\_sub\_library (for example, tab\_sub\_library.fre) must also be updated.

Example of the tab\_sub\_library.eng table:

ALEPH 2	L General Patron	ALEPH	ALEPH		
ATA50 2	ATA50 L Express ADM Library	ATA50	ALEPH		
SUBL1 1	ATA50 L Main Library	ATA15	ATA16	ATA17	ALEPH
SUBL2 1	ATA50 L Special Collection	ATA15	ATA16	ATA17	ALEPH

### 6.3.2 tab\_base.lng

The tab\_base.lng table defines the logical and physical databases that can be accessed by the user through the Web OPAC and search functions.

The program adds all customer libraries codes as defined in input\_file.

You can edit col.3 and optionally add logical bases.

Open tab\_base.eng for editing by entering the following in the command line:

```
vi $alephe_tab/tab_base.eng
```

If your system is configured for languages other than English, the additional copies of the tab\_base (for example, tab\_base.fre) must also be updated.

Example of the tab\_base.lng table:

ATA01	Express BIB	ATA01	USM01	ATA01	N
ATA01-NOEMPTYHEAD	Express BIB	ATA01	USM01	ATA01	N
ATA10	Express LC	ATA10	USM10	ATA10	N
ATA12	Express MeSH	ATA12	USM10	ATA12	N
ATA30	Express Course R.	ATA30	USM30	ATA30	N
ATA50	Express ADM			ATA50	N
ATA60	Express Holdings			ATA60	N

SUBL1	Main Library	ATA01 USM01	ATA01 Y
wsl=subl1			
SUBL2	Special Collection	ATA01 USM01	ATA01 Y
wsl=subl2			
ATA01PUB	Public Catalog	ATA01 USM01	ATA01 N
wrd=alldocuments not	wst=(suppressed or circ-created)		
MONOGRAPHS	Monographs	ATA01	ATA01 Y
wfm=BK			
JOURNAL	Serials	ATA01	ATA01 Y
wfm=SE			
ARCHIVE	Archives Collection	ATA01	ATA01 Y
wcl=ARCHV			
GRADUATE	Graduate Seminar	ATA01	ATA01 Y
wcl=GSC			
5771 AUT ATA10	3 OCLC	OCLC	

### 6.3.3 base-list (relevant only for BIB libraries)

This HTML file contains the list of databases available to the Web OPAC user. It is located in \$alephe\_root/www\_f\_eng/base-list.

Open base-list for editing by entering the following in the command line:

```
wf (this puts you into the www_f_eng directory)
vi base-list
```

If your system is configured for languages other than English, the additional copies of the base-list (for example, www\_f\_fre/base-list) must also be updated.

Example of a library in the base-list file:

```
<td class=text3>
  
  <a href="&server_f?func=find-b-0&local_base=LOC">
    Library Of Congress - (Z39.50) </a>
</td>

<td class=text3>
  
  <a href="&server_f?func=find-b-0&local_base=monographs">
    Monographs Catalog (USM01)</a>
</td>
```