



USER DOCUMENTATION (ALEPHINO 5.0)

Z39.50 Services



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1 Description

Searches in further library catalogues via the Z39.50 gateway allow both the patron and the library staff to use additional information sources. Z39.50 in this context is the international standard protocol to - through a query - communicate in heterogeneous environments with several systems at the same time, without leaving the familiar interface of the WWW-OPAC or the Search tab.

Alephino supports Z39.50 and that way can integrate any information system which also supports Z39.50 into the search interface and present as search result next to the local titles. The bibliographic records may be taken over by the librarian from the search interface directly into the Alephino catalogue and edited there.

Thus, the Z39.50 gateway is not only a tool for supplying the patron with an enlarged choice of information but also an indispensable instrument for efficient cataloging by using records retrieved from external databases.


Z39.50 server is also available. Thus, you have the opportunity to offer your local database(s) to be retrieved via the internet using the Z39.50 standard protocol. Even Web-based search portals - like MetaLib from Exlibris is - will often use the Z39.50 protocol to address a variety of databases.

The Alephino Z39.50 gateway has in fact been available for a while independently from a version, but from version 2.2 onwards the formerly separate Z39.50 gateway environment has been completely integrated into the Alephino server environment. The administration and configuration of the gateway (e.g. defining the targets) may be done via a Web client.

2 Application

The Alephino server (bin\alephino[.exe]) and the Z39.50 Gateway (bin\zgate[.exe]) must be started. Please note that the operation of the Z39.50 Gateway requires a licence from Ex Libris (Deutschland) GmbH.

The workflow is as follows:

1. Start the Cataloging module and connect to your normal title masterfile
2. Activate the search tab and connect there to the desired target (e.g. Z-MRC)
3. Retrieve the desired title and bring it into full view
4. Push the record via the button  to the cataloging tab
5. Duplicate the record into your local Alephino database (menu "Cataloging" / Duplicate record).

Depending on the format of the source record, when saving the record in Alephino an implicit conversion into the Alephino format takes place. Authority records for links will automatically be created. This procedure allows per "On the fly" conversion to take over data from sources conform to MARC21 and MAB2 - if necessary after minor manual editing of the records in the cataloguing module.

3 Setup and administration

3.1 Defining and modifying a target

To define and modify a target call up the Alephino Web Service Module and select "Z39.50 Gateway":



Web Services Release 5.0

| | |
|-----------------------|---|
| Administration | Database and Server Maintenance |
| Circulation/Items | Reports and Services |
| Acquisitions | Reports and Services |
| Serials management | Subscription/Routing lists, Claims |
| Statistics | Reports for Holdings, Circulation and Acquisition |
| Batch services | Common batch services |
| Profile services SDI | Search profiles for users |
| Setup Services | Adjust server side parameter tables |
| Interfaces | Unload / load data |
| Z39.50 Gateway | Z39.50-Gateway Maintenance |
| Manual | Alephino user manual |

Via the link you get to the web-based administration interface for the Z39.50 Gateway:

Select the menu "Setup Services" and then "Gateway configuration":

Z39.50 Web Services Release 5.0

| | |
|-----------------------|-------------------------------------|
| Administration | Z39.50-Gateway Maintenance |
| Setup Services | Adjust server side parameter tables |

Database: **Z39-Libraries**

Z39.50-gateway configuration

Kommunikation

IP-address (hostname)

IP-connection (port)

Z39.50 Target

Library

Target

User

Pass

RecordSyntax

CCLRules

TranslIn

Timeout

Scan

Navigate

Here, you may modify all defined targets.

In the help for the input mask you will find explanations on the individual fields.

To define and modify new targets, enter the code of the new target in the input field for Library (e.g. Z-NEW) and click on „Get current values“. An empty form is displayed for specifying the parameters for the new target. With finally clicking on the disk symbol "Save", your settings will be written to the system configuration file *etc/zgate.cfg*. To activate the changes, the Alephino Z39.50 gateway must be restarted.

3.2 Server side adaptations

The Z39.50 gateway in its initial state, analogous to the master files of a local Alephino database, knows two symbolic files that are predefined. The corresponding entries are located in file **etc/z39file.ext**.

While the one named "MAB" is to use as a prototype of a data source with MAB2-formatted data sets, the "MRC" designated file figures for prototype of a MARC21 compatible target:

```
*****
* Definition Files
*****
(zfiles)
FILE=MAB,DEFIN=011,INDEX=z39mabidx,LOCATE=mabloc
FILE=MRC,DEFIN=012,INDEX=z39mrcidx,LOCATE=mrcloc
```

MARC-derivates like Unimarc, Picamarc, Danmark etc. as well as „free“ formats, also called SUTRS or OPAC, are not supported.

Example:

The Library of the University of Glasgow is to be "tapped". This target provides MARC21 format. For this we use the target Z-GLA already contained in the factory setting of the configuration file **etc/zgate.cfg**.

1. Process file **etc/z39file.ext**. First, duplicate the declaration that fits to the syntax of the target you want to address, in our case it's FILE=MRC, then apply a name to it, let it be FILE=**GLA**. Finally add declaration **FORM=MRC** to that declaration line. With that the system will know that all definitions controlling the display- and print-formatting that are valid for the predefined virtual file **MRC** are to be adopted for our **GLA** as well:

```
*****
* Definition Files
*****
(zfiles)
FILE=MAB,DEFIN=011,INDEX=z39mabidx,LOCATE=mabloc
FILE=MRC,DEFIN=012,INDEX=z39mrcidx,LOCATE=mrcloc
FILE=GLA,DEFIN=012,INDEX=z39mrcidx,LOCATE=mrcloc,FORM=MRC
```

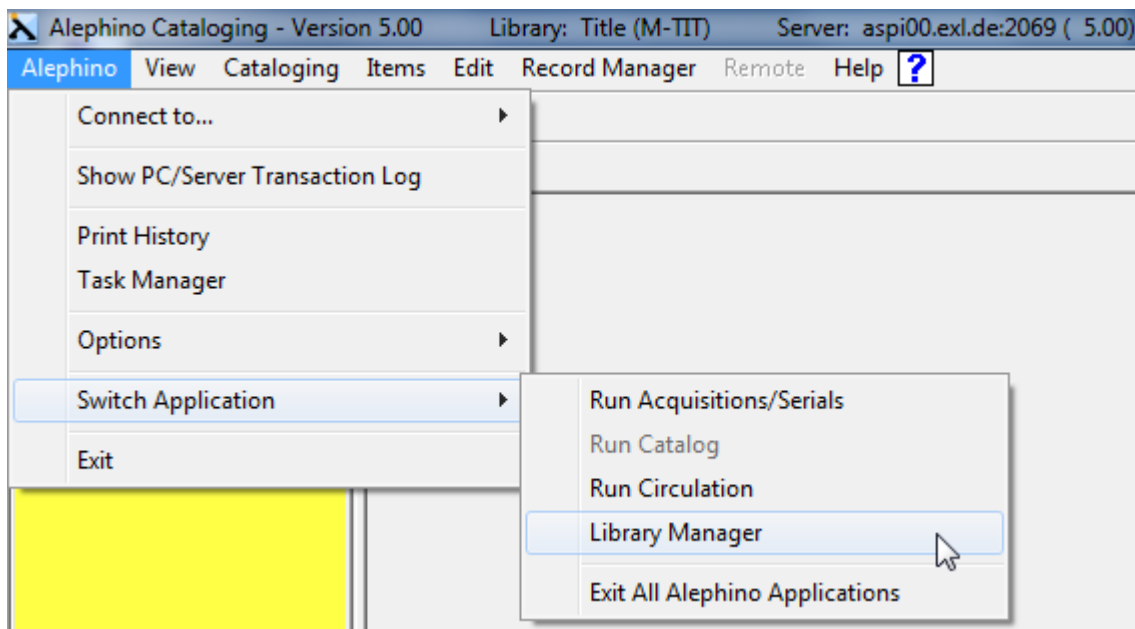
2. Make a copy of file **pc_MRC.pck** that is located in directory **etc/client**, and name it **pc_GLA.pck**. This file represents the so called client-package covering files that are valid to control the GUI client and hence are to be transferred to the client on establishing connection to the Z39.50 gateway.

- Subdirectory *catalog\tab* file *per_lib.ini*
Z-MRC
Z-GLA

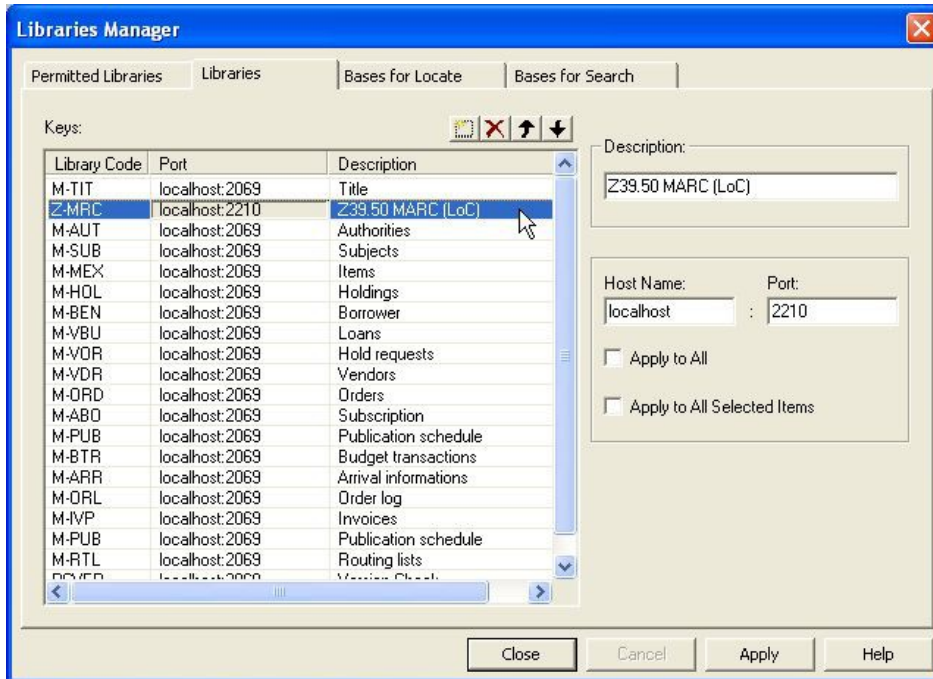
3.4 The Alephino Library Manager

In Alephino there is a comfortable way to edit these files. Please use the *Library manager*, which is integrated in the cataloguing module, to add more databases to the configuration of your Alephino GUI applications or to delete or rename them:

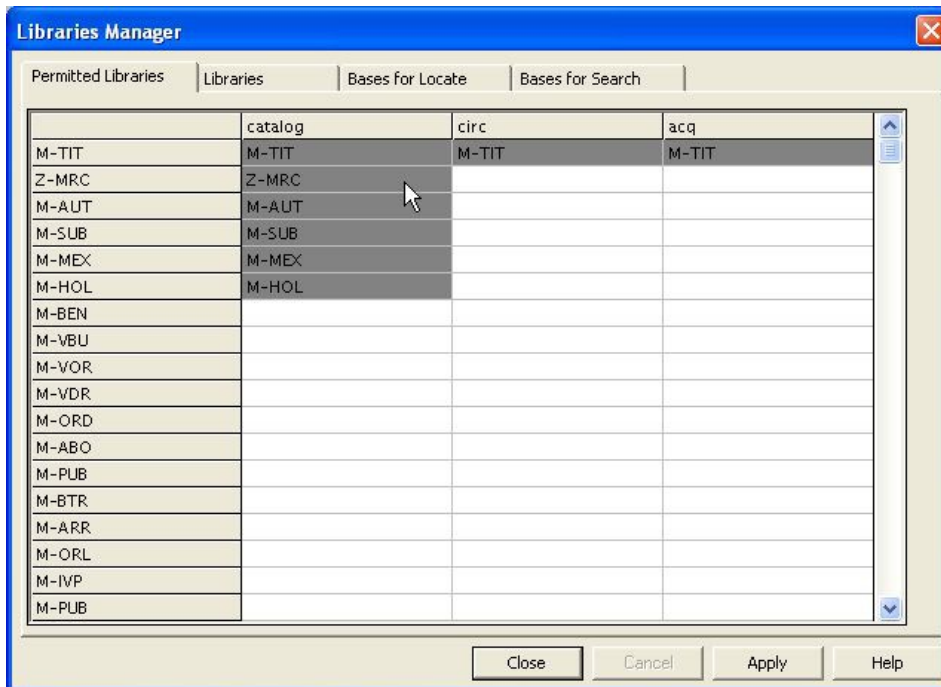
1. Call up the function (Cataloging module, menu „Alephino“ / Switch Application)



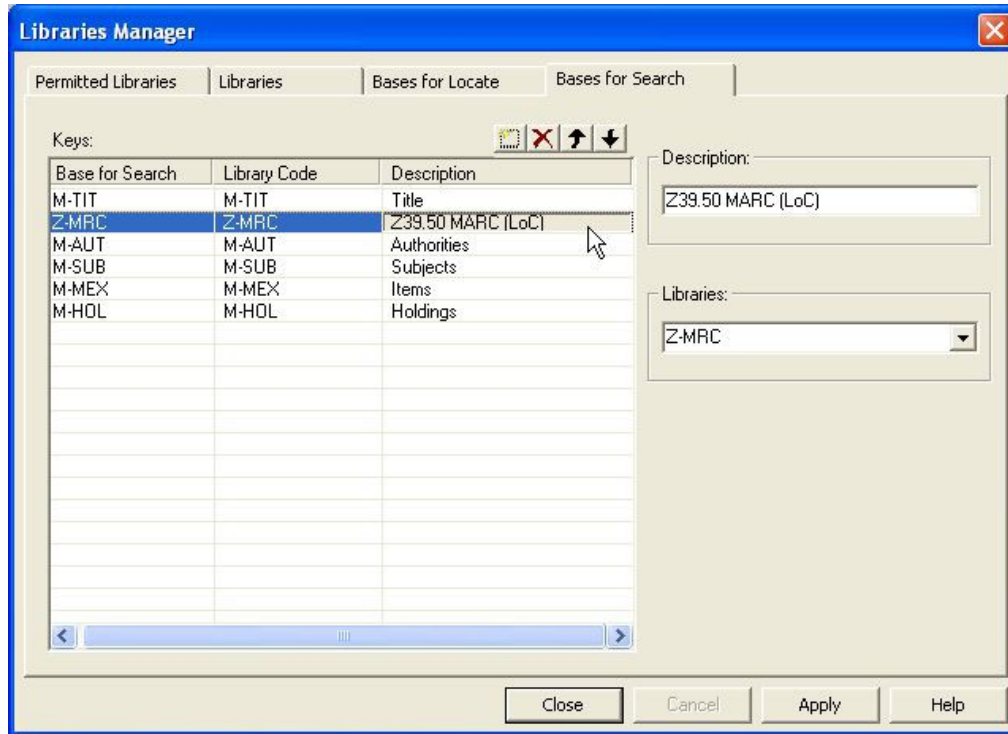
2. Add the symbolic database and its Gateway address



3. Add the symbolic database to the permitted libraries of the Cataloging module



4. Add the symbolic database to the bases available in the Search tabs



If you want to integrate the Z39.50 libraries in the database menu of the Web OPAC you must edit its configuration file *alipac.cfg* in the (server) directory etc:

- Section (*Libraries*)

Z-MRC = localhost:2210

Z-GLA = localhost:2210

- Sections (*NamesGER*) und (*NamesENG*)

Z-MRC = Z39.50-Library of Congress

Z-GLA = Z39.50-University of Glasgow

(Of course the names of the libraries can be chosen freely.)

4 Setup of the Z39.50 server

The Alephino Z39.50-server supports the following services of the Z39.50-protocol:

- INIT (AUTH)
- SEARCH
- SCAN
- FETCH (PRESENT)
- SORT

The program is controlled by configuration file `etc/zserver.cfg`. The basic configuration already contains all the entries needed to address the predefined Alephino-database "M-TIT" (MARC21). In order to address a Z39.50-source using an appropriate Z39.50-Client (BookWhere, EndNote ...) the following parameters will always be needed:

| Designation | Parameters in <code>etc/zserver.cfg</code> |
|--|---|
| IP-address of the server (also DNS-Name) | |
| Port number | (Communication) Port = 2010 |
| Virtual database | (Libraries) MARCUS = M-TIT |
| If the access is to be restricted to authorized users... | (Communication) User = Z39 Pass = Z39 |

Since the basic configuration does already cover all necessary parameters, it is sufficient to simply start the server. If you have defined additional local Alephino databases and want to provide them via Z39.50 as well, they must be added to parameter section (**Libraries**) in file `etc/zserver.cfg`.

5 Appendix A: Selected access information

Please note, that the access may be customer-specific and not free of charge, i.e. user/password may be need to be asked for at the institutions. There is no warranty for the validity of the following.

----- Extract from zgate.cfg -----

*

*** Library of Congress (no SCAN)**

*

(Z-MRC)

Target = z3950.loc.gov:7090/VOYAGER

CCLRules = ../etc/marclib.ccl

RecordSyntax = MARC

TransIn = marctoext

Timeout =

*

*** Glasgow University**

*

(Z-GLA)

Target = eleanor.lib.gla.ac.uk:210/innopac

CCLRules = ../etc/marclib.ccl

RecordSyntax = MARC

TransIn = marctoext

Timeout =

*

*** NEBIS Switzerland**

*

(Z-NEB)

Target = opac.nebis.ch:9909/NEBIS

CCLRules = ../etc/marclib.ccl

TransIn = marctoext

RecordSyntax = MARC

Timeout =

*

*** HeBIS Frankfurt/Main**

*

(Z-HEB)

Target = tolk.hebis.de:20210/hebis

CCLRules = ../etc/marclib.ccl

TransIn = marctoext

RecordSyntax = MARC

User = 3950

Pass = Z3950

Timeout =

*

In addition, we would like to recommend the following link (the most extensive resource on Z39.50 targets world wide): <http://irspy.indexdata.com>