



METALIB VERSION 4.00

Copy Cataloging

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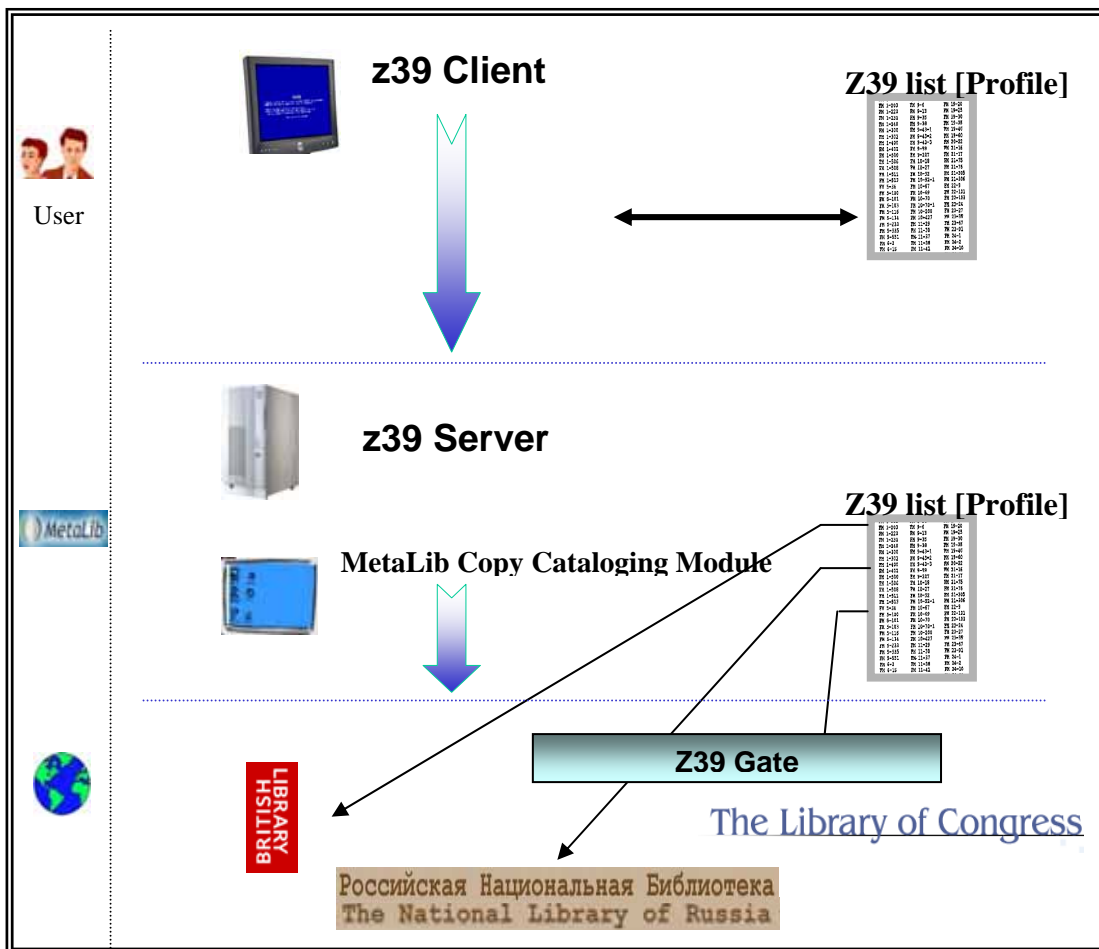
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1 Introduction

MetaLib supplies a separate Copy Cataloging module which requires a special license. This module permits remote z39 clients to search and retrieve records from MetaLib resources in different formats and character sets. The client asks for a specific character set and cataloging format and the MetaLib server converts the record into the format and character set desired by the client.

The Copy Cataloging function is carried out using the Z39 protocol with a user pre-defined profile. The profile includes a list of preferred targets for copy cataloging. MetaLib's z39 Server accepts requests from a z39 client such as yaz_client and using MetaLib's Universal Gateway the request is adapted and sent sequentially to the predefined targets until a hit is found. Records are retrieved from those targets and converted for copy cataloging purposes (see flow chart below).



2 Z39 Server & PC Server

In order for this module to work, both the z39 server and the pc server must be running on the MetaLib server. The z39 server runs on port 999x and the pc server on 699x (the last digit is defined according to the installation number).

The z39 server can be started with UTIL W 3,4.
A log can be seen in \$TMPDIR called 39_server_999x.log.

Starting, stopping, and monitoring the pc server is available via UTIL W3,3.
A log of the pc server can be seen in \$TMPDIR called pc_server_699x.log.

3 Using yaz_client to initiate the distributed cataloging function

The z39 server receives a request from yaz_client or any other z39.50 client. A connection should be created to MetaLib's z39 server, as in
open tcp:<metalib host name>:999x.

4 Resources to be searched

The search can be sent using a pre-defined list of targets or to an individual target.

- If the query is sent to an individual resource, the base in the yaz session should be defined as *base GATE_CKBxxxxxxx* where CKBxxxxxxx is the id number of the resource.
- If the query is sent to a pre-defined list of resources, MetaLib will send the query sequentially to the list of resources until a hit is found. For this kind of search a Profile should be created which lists the id numbers of the resources to be searched in the preferred order. The Profile should be created in a file in the directory z39_server (./z39_server).

The file should be called z39_server_GATE_P_<NAME>.conf , where P stands for Profile, and <NAME> is the name of the profile.

If a profile is being searched from yaz_client , then the base would appear as *z>>base GATE_P_<NAME>.*

5 Applications Tab of Resource Configuration

The Applications tab defines the desired record format and character conversion as well as the program to be used for converting records.

Five different configuration options are available for each resource. For each configuration option you need to enter three fields:

- Record Type
The first field, Record Type, determines the physical format of the record. Options are usmarc, unimarc, mab, sutrs and xml. The default is usmarc.

- **Format Conversion Program**

This field determines the program used for the logical conversion of the record.

You can enter three programs:

- To use the Conversion Tab of the resource configuration of the target, enter “vir_fix_doc_standard”.
- To use a specific table on the server, enter “vir_fix_doc_table”. In this case, the customer should write a conversion table (e.g. from usmarc to unimarc), to be placed in the tab_conversion directory of dat01. The name of the table must be tab_conv_<configuration code>_<new record type>.

Example: A conversion table for Oxford University which converts from usmarc to unimarc would be called tab_conv_oxford_unimarc.

During a yaz session, records can be requested in any of the formats listed.

- **Hook for conversion program**
The customer may write his own executable program in ./aleph/exe which acts as a hook for the logical conversion of incoming records. The hook receives input from the original format of the record retrieved by a search (e.g. mab) and sends output in a new format (e.g. usmarc). The name of the hook must start with ext_ and the full name of the program must be entered in the Format Conversion Program field.

A sample perl program is provided, called ext-mab-to-marc-api-example.

(The hook need not be written in perl and can be written in any programming language).

- **Character conversion**

Enter the character conversion routine which you require for your records. The format of the character conversion is UTF_TO_xxxx where xxxx is the character set required.

6 Implementation notes

In order to enable the copy cataloging option follow the steps below:

1. Remove the comments on all html files relating to the **Applications** tab (see figure below) under dat01/www_m_eng:

source-display-a-head
source-display-b-head
source-display-c-head
source-display-d-head
source-display-e-head
source-display-f-head
source-view-a-head
source-view-b-head
source-view-c-head
source-view-d-head
source-view-f-head

2. Remove comments on all util_w scripts relating to the PC server

> ap

util_w_01
util_w_02
util_w_03
util_w_04

3. Edit the hostname and port of the PC server (9991) in the file z39_server.conf, then restart the server:

> cd \$z39_gate
> vi z39_server.conf
> dlib dat01
> util w-3-3

Resource Name: Library of Congress Online Catalog - CNI

Configuration Code = LOC Open/Update date 01/01/01 11:00:03

Z39 server settings

1.Record Type	<input type="text"/>	
Format conversion program	<input type="text"/>	
Character conversion	<input type="text"/>	
2.Record Type	<input type="text"/>	
Format conversion program	<input type="text"/>	
Character conversion	<input type="text"/>	
3.Record Type	<input type="text"/>	
Format conversion program	<input type="text"/>	
Character conversion	<input type="text"/>	
4.Record Type	<input type="text"/>	
Format conversion program	<input type="text"/>	
Character conversion	<input type="text"/>	
5.Record Type	<input type="text"/>	
Format conversion program	<input type="text"/>	
Character conversion	<input type="text"/>	