

CALIFORNIA STATE LIBRARY Z39.50 SERVER SPECIFICATIONS

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Introduction and Contact Information

This document provides detailed technical information regarding the California State Library's implementation of its Z39.50 server. The Sirsi Classic IR-Server conforms to the Z39.50-1992 (Version 2) standard and Level 0 of the Z39.89 standard. Send questions or correspondence to:

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The following details about the Sirsi Classic IR_Server are based on information from the Sirsi Corporation web site, http://www.sirsidynix.com/Resources/Pdfs/Company/Z3950_Classic.pdf.

The California State Library Server:

Domain name: vax.lib.state.ca.us (134.186.55.70 as of July 18, 2008) (Formerly 63.192.170.91)

Port: 210

Database Name: MARION (the online catalog of the California State Library, including the Sutro Library located in San Francisco, CA.)

Holdings File: CIRCLE_ITEM_FILE

Z39.50 Services Supported By The Sirsi Classic Server:

Initialization
Search
Present
Delete
Access-control
Resource-report
Resource-control
Trigger-resource-control

Initialization Service

Protocol Version : Z39.50-1992 (Version-2)

Options Supported :

*Search
Present
Delete
Access-control
Resource-report
Resource-control
Trigger-resource-control*

Preferred Message Size :

IR-Server prefers a message size of 65,535 bytes (64 K). It will accept, however, a maximum preferred message size of 262,143 bytes (256 K).

Maximum Record Size :

IR-Server will accept a maximum record size of 262,143 bytes (256 K).

ID Authentication :

Although the IR Server supports Anonymous and Open User Id/Authentication types, at this time User ID and password are not required by the California State Library server.

Search Service

Result Set Name

In addition to 'default', IR-Server can maintain a maximum of 128 named result sets per Z-association. Result set names may have a maximum length of 23 characters.

Database Names

IR-Server supports searching one Classic database at a time, not combined.

Generic "CIRCLE_ITEM_FILE" database is the name IR-Server refers to in order to provide item and circulation information.

Element Set Names

Only generic element set names are supported at this time. The list is detailed below in Element Set Names Available.

Preferred Record Syntax

IR-Server supports a subset of public and private Z39.50 record syntaxes. Details follow under Record Syntaxes Available.

Query types

Type 1 and Type 101 (proximity) are supported.

Attribute Set ID

Bib-1 only is supported.

Operand

The Result-set-id may be used in the Operand (for qualifying searches).

Operators Supported

AND OR AND-NOT

Proximity

Right proximity (within)

Right or left proximity (near).

A unit may be a word or phrase.

Present Service*Element Set Names*

Only generic element set names are supported at this time. The list is detailed below in Element Set Names Available

Preferred Record Syntax

IR-Server supports a subset of public and private Z39.50 record syntaxes. Details follow under Record Syntaxes Available.

Delete Service

IR-Server supports both bulk and result sets list delete operations.

Access-control Service

IR-Server will accept Access-control response messages, but does not send requests.

Resource-report Service*Preferred Resource Report Format*

IR-Server provides a resource report using the Resource-1 resource report format. The report contains two estimates: the session's incurred costs so far as well as the session's total time duration (as of the time of report request).

Resource-control Service

IR-Server will accept Resource-control request messages, but does not send responses.

Trigger-resource-control Service

IR-Server will accept Trigger-resource-control request messages, but will not actually trigger a 'resource-control' request back to the client (as a consequence).

Supported Bib-1 Attributes

IR-Server supports, for each defined Classic system search type, the following bib-1 attribute combinations. Values in gray cells are optional and do not need to be specified. When more than one is available, (D) indicates the implicit default value implemented by the server. Similarly, (P) indicates the preferred Structure attribute value, when more than one is eligible.

Classic	Bib-1 Attribute combinations					
Search Types	Use	Relation	Position	Structure	Truncation	Compl.
Title	4-Title	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	1- Inc. subfield
ISBN ¹	7-ISBN	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	1- Inc. subfield
ISSN ²	8-ISSN	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	1- Inc. subfield
LCCN	9-LCCN	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	1- Inc. subfield
Reference	1007-Identifier -- standard 5014-SIRSI local reference number (see note below)	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Local call number	53-Local call number	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Subject	21-Subject Heading	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Imprint	59-Place publication	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Notes	63-Note	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Author	1003-Author	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D) 102-Name (un-normalized)	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Default numeric	30-Date 32-Date of acquisition 54-Code -- language 55-Code -- geographic area 56-Code -- institution 1011-Date/time added to database 1012-Date/time last modified 1013-Authority/format identifier	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Default non numeric	1016-Any	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D) 102-Name (un-normalized)	100-Do not truncate (D) 101-Proc.#	1-Inc. subfield
Local number	5020-SIRSI Local -- Database Control Number	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	1- Inc. subfield

¹The ISBN should be entered without dashes.

²The ISSN should be entered without dashes.

Element Set Names Available

Generic element set names, per category, are as follow:

MARC related element set names:

- 'B' for Brief MARC records, which includes the following MARC tags:

{ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 18, 20, 22, 24, 27, 28, 33, 34, 40, 41, 42, 43, 50, 51, 52, 66, 86, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 110, 111, 130, 150, 151, 222, 240, 243, 245, 246, 247, 250, 254, 255, 256, 257, 260, 261, 262, 300, 305, 306, 310, 315, 340, 362, 400, 410, 411, 490, 506, 508, 511, 515, 525, 533, 534, 547, 550, 580, 600, 610, 611, 630, 650, 651, 653, 654, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 710, 711, 730, 740, 765, 772, 773, 775, 777, 780, 785, 800, 810, 811, 830, 840, 852 }

- 'F' for Full MARC records (F is the default)

SIRSI's implementation of Multimedia items element set names:

- 'TEXT-0' for SIRSI-Text items inquiry

- 'TEXT[-page]' for SIRSI-Text items retrieval, where 'page' is the page number to retrieve

- 'IMAGE-0' for SIRSI-Image items inquiry

- 'IMAGE' for SIRSI-Image items retrieval records

- 'SOUND-0' for SIRSI-Sound items inquiry

- 'SOUND' for SIRSI-Sound items retrieval records

Record Syntaxes Available

IR-Server supports the following Z39.50 public syntaxes:

US-MARC (default)

IR-Server also supports the following SIRSI local record syntaxes:

SIRSI-Holdings, SIRSI-Text, SIRSI-Image, SIRSI-Sound, SIRSI-Service, SIRSI-LocTranslation

Supported Diagnostic Sets

Bib-1 is the default diagnostic set supported. General format of diagnostics consists in a diagnostic code followed by a contextual description.

Supported Z39.50 Profiles

IR-Server conforms with the following Z39.50 profiles:

- ATS-1

- Z39.50 over TCP