



INLEX/3000 Z39.50 Server Configuration

This document provides detailed technical information regarding Sirsi's implementation of the Z39.50 standard for its INLEX/3000 system. The existing INLEX/3000 Z39.50 server, conforms to Z39.50-1992 (Version 2) of the standard.

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The INLEX/3000 Z39.50 server supports the following services:

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

Servers Available for Testing at Sirsi (Monterey, CA)

Test Server Domain name: z3950.inlex.dra.com

Port: 210

Hours of availability: Available from 6 a.m. to 6 p.m. PST (Pacific Standard Time), 365 days a year except during routine updates, scheduled infrequently throughout the year.

Databases Available:

INLENG - a combination of the INLEX/3000 library training database and sample records from other sources. This database contains 11,500 bibliographic records, 25,000 authority records, and 13,000 item records.

CIRCLE_ITEM_FILE - The generic database name that the Sirsi Classic server refers to in order to provide item and circulation information.

INRENG - a combination of the INLEX/3000 information and referral (I&R) training database and sample records from other sources. This database contains 200 bibliographic records and 400 authority records. Information and referral databases do not had holdings. INLEX/3000 libraries with Sirsi Web2, Version 1.2 should refer to Sirsi Web2 Release Notes for INLEX/3000 Systems (Version 1.2) page B-8 for detailed configuration information. Using that example replace the address line with "Host=z3950.inlex.dra.com".

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
The INLEX/3000 Server prefers a message size of 30,000 bytes (29.3 K).

Maximum Record Size
The INLEX/3000 Server will accept a maximum record size of 30,000 bytes (29.3 K).

ID Authentication
Only Anonymous Authentication is supported. User ID and password are not required by the INLEX/3000 server at this time.

Search Service

Result Set Name

In addition to 'default,' the INLEX/3000 Server can support named result sets. There is no restriction on result set names.

Database Names

The INLEX/3000 Z39.50 server supports searching multiple INLEX/3000 databases within the same library account. A single INLEX/3000 system on an HP 3000 may be composed of the holdings from a single library, a multiple branch library, a group of independent libraries, a multiple agency library consortium, or could be composed of a mixture of all of these types of organizations. Although the INLEX/3000 programs look at these entities as part of one database, the INLEX/3000 Z39.50 server recognizes the autonomy of each library, branch, agency, and consortium within that database and supports Z39.50 searching against specific libraries individually within the INLEX/3000 database.

Generic "CIRCLE_ITEM_FILE" database is the name the INLEX/3000 Server refers to in order to provide item and circulation information.

Element Set Names

Generic element set names are supported for attached files.

The list is detailed in

Preferred Record Syntax

The INLEX/3000 Server supports a subset of public and private Z39.50 record syntaxes.

Details follow in [Record Syntaxes Available](#).

Query types

Type 1 is supported.

Attribute Set ID

Bib-1 (Z39.50-1995) is supported.

Operand

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

Operators Supported

AND OR AND-NOT

Proximity

Proximity operators are not supported.

Present Service

Element Set Names

Generic element set names are supported for attached files.

The list is detailed in [Element Set Names Available](#)

Preferred Record Syntax

The INLEX/3000 Server supports a subset of public and private Z39.50 record syntaxes.

Details follow in [Record Syntaxes Available](#).

Delete Service

The INLEX/3000 Server supports both bulk and result sets list delete operations.

Access-control Service

The INLEX/3000 Server will accept Access-control response messages, but does not send requests.

Resource-report Service

Preferred Resource Report Format is not supported.

Resource-control Service

The INLEX/3000 Server will accept Resource-control request messages, but does not send responses.

Trigger-resource-control Service

The INLEX/3000 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

The INLEX/3000 Server supports, for each defined INLEX/3000 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.

INLEX	Bib-1 Attribute combinations					
	Search Types	Use	Relation	Position	Structure	Truncation
Author (stem)	1-Personal Name	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Author (keyword)	1-Personal	3-Equal	3-Any	2-Word (P)	100-Do not truncate	1-Inc. subfield
Agency ¹	2-Corporate Name	3-Equal	3-Any	2-Word (P)	100-Do not truncate	1-Inc. subfield
Title (keyword)	4-Title	3-Equal	3-Any	2-Word (P)	100-Do not truncate	1-Inc. subfield
Title (stem)	4-Title	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Program ¹	4-Title	3-Equal	3-Any	2-Word (P)	100-Do not truncate	1-Inc. subfield
ISBN ²	7-ISBN	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
ISSN ²	8-ISSN	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
LCCN ²	9-LC Card Number	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Numeric default	12-Local Number	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Local number	12-Local Number	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Item barcode# ³	12-Local Number	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Subject (keyword)	21-Subject Heading	3-Equal	3-Any	2-Word (P)	100-Do not truncate	1-Inc. subfield
Subject (stem)	21-Subject Heading	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
National bib# ³	48-No. Nat'l Biblio.	3-Equal	3-Any	3-Key (P))	100-Do not truncate	1-Inc. subfield
Government doc# ³	50-No. Govt Pub.	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Music# ³	51-No. Music Publisher	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Acquisitions# ³	52-Number db	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Local Call Number	53-Number Local Call	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Notes	63-Note	3-Equal	3-Any	2-Word (P)	100-Do not truncate	1-Inc. subfield
Author (keyword) ¹	1003-Author	3-Equal	3-Any	2-Word (P)	100-Do not truncate	1-Inc. subfield

	not used (1 is used)					
Default non numeric (default_qualifier)	1016-Any	3-Equal	3-Any	2-Word (P)	1-Right Truncation	1-Inc. subfield
Stock number ³	1028-Stock-Number	3-Equal	3-Any	3-Key (P)	100-Do not truncate	1-Inc. subfield
Default non numeric (default_qualifier)	1035-Anywhere not used (1016 used)	3-Equal	3-Any	2-Word (P)	1-Right Truncation	1-Inc. subfield

¹Information and Referral or Community Information databases are an optional purchase for INLEX/3000 libraries. If these databases exist, they can be searched via Z39.50.

²The ISSN, LCCN, and ISBN should be entered without dashes.

³These indexes can be searched if they exist in the INLEX/3000 database. Each INLEX/3000 libraries may or may not have elected to create these indexes when the software was initially purchased.

- Element Set Names Available

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

US-MARC related element set names:

{ 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 }

- Element set name is ignored.
- 001 is overwritten with a proprietary control number.

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
- GRS (Generic Record Syntax) for text, image and sound.files.

Record Syntaxes Available

INLEX/3000 Z39.50 Server supports the following Z39.50 public syntaxes:
US-MARC (default)

INLEX/3000 Z39.50 Server also supports the following:

GRS-Text, GRS-Image, and GRS-Sound, holdings and location information.
Sirsi-Text, Sirsi-Image, Sirsi-Sound and Sirsi holdings.

Supported Diagnostic Sets

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

Supported Z39.50 Profiles

The INLEX/3000 Server conforms with the following Z39.50 profiles:

- Z39.50 over TCP