Voyager®
Ex Libris Rosetta Integration User's Guide

May 2009

ExLibris The bridge to knowledge

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About This Document

Purpose of This User's Guide

The purpose of the *Voyager® Ex Libris Rosetta Integration User's Guide* is to familiarize you with the integration features and describe customization options.

Intended Audience

This document is intended for programmers who are customizing Voyager Ex Libris Rosetta Integration and are familiar with XSL, XML, and/or UNIX.

Reason for Reissue

This is the first general release of the *Voyager Ex Libris Rosetta Integration User's Guide*.

Document Summary

Chapter 1 "Getting Started"
This chapter describes the prerequisite knowledge, skills, and software necessary for beginning work in Voyager Ex Libris Rosetta Integration.

Chapter 2	"Description and Configuration" This chapter describes the product features and configuration requirements.
Chapter 3	"System" This chapter describes the system components for running Voyager Ex Libris Rosetta Integration and logging provided.
Index	The Index is an alphabetical, detailed cross-reference of topics.

Conventions Used in This Document

The following conventions are used throughout this document:

- Names of commands, variables, stanzas, files, and paths (such as `/dev/tmp`), as well as selectors and typed user input, are displayed in `constant width` type.
- Commands or other keyboard input that must be typed exactly as presented are displayed in **`constant width bold`** type.
- Commands or other keyboard input that must be supplied by the user are displayed in ***`constant width bold italic`*** type.
- System-generated responses such as error messages are displayed in `constant width` type.
- Variable *portions* of system-generated responses are displayed in *`constant width italic`* type.
- Keyboard commands (such as **Ctrl** and **Enter**) are displayed in **bold**.
- Required keyboard input such as "Enter **`vi`**" is displayed in **`constant width bold`** type.
- Place holders for variable portions of user-defined input such as **`ls -l`** ***`filename`*** are displayed in ***`italicized constant width bold`*** type.
- The names of menus or status display pages and required selections from menus or status display pages such as "From the **Applications** drop-down menu, select **System-wide**," are displayed in **bold** type.
- Object names on a window's interface, such as the **Description** field, the **OK** button, and the **Metadata** tab, are displayed in **bold** type.
- The titles of documents such as *Acquisitions User's Guide* are displayed in *italic* type.
- Caution, and important notices are displayed with a distinctive label such as the following:

NOTE:
Extra information pertinent to the topic.

IMPORTANT:
Information you should consider before making a decision or configuration.

CAUTION:
Information you must consider before making a decision, due to potential loss of data or system malfunction involved.

TIP:
Helpful hints you might want to consider before making a decision.

RECOMMENDED:
Preferred course of action.

OPTIONAL:
Indicates course of action which is not required, but may be taken to suit your library's preferences or requirements.

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Ex Libris™ development has focused on accessibility compliance for WebVoyáge.

The tactics and techniques used for accessibility compliance in WebVoyáge were derived from discussion documents and use of tools including the FAE (Functional Accessibility Evaluator) tool. The FAE tool analyzes web content based on the use of CITES/DRES Html Best Practices (see http://html.cita.uiuc.edu/) for web development.

For example, one of the practices used is to declare a headings level 2 tag, ***<h2>***, within ordered, ***<ol>***, and unordered, ***<ul>***, lists, ***<li>***. The ***<h2>*** tag describes a descriptive label for a collection of links.

Since JAWS (see http://www.freedomscientific.com/fs_products/software_jaws.asp) allows users to navigate web content via headers, ***<h1>…<h6>***, this is a good way to break up the web interface into logical components.

WebVoyáge implements the use of ***<h2>*** headings within lists purely for accessibility navigation. The header is positioned off-screen using css so that a non-screen-reading user does not see the header.

As you work with WebVoyáge, you will observe other characteristics of accessibility compliance.

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- Section 508 of the Rehabilitation Act (29 U.S.C. 794d). See http://www.section508.gov/.

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Getting Started

1

Getting Started

1

Purpose of this Chapter

The purpose of this chapter is to provide the following:

- Prerequisites for getting started and skills required.
- Preliminary setup information. See Before You Begin on page 1-2.

Prerequisites - Skills and Knowledge

To use this document effectively, you should be familiar with the following:

- Microsoft Windows operating environment.
- UNIX operating system commands and file system.
- A text editor such as `vi` or equivalent.
- XML.
- XSL.
- Script processing.
- Local procedures.

Before You Begin

Before you can begin, you need to do the following:

- Install Voyager 6.5.4 or higher.
- Install WebVoyáge 6.5.4 or higher.
- Install a z39.50 server.
- Obtain the the IP and port address information for customizing your configuration files.
- Install Oracle JDBC.
- Install Tomcat.

Description and Configuration

2

Description and Configuration

2

Purpose of This Chapter

The purpose of this chapter is to describe the Voyager Ex Libris Rosetta Integration product and identify the configuration setup required. The following areas are the key points for integration:

- Search using the SRU/SRW standard. See Search on page 2-2.
- Identify Voyager- and Ex Libris Rosetta-related records . See Flag Records on page 2-12.
- Export records to Ex Libris Rosetta. See Export on page 2-12.
- Create a URL for WebVoyáge holdings display. See URL Creation on page 2-18.

Overview

The requirement that Voyager Ex Libris Rosetta Integration addresses is to provide a method of synchronization between Voyager and Ex Libris Rosetta that ensures that updates to MARC records in Voyager are reflected in Ex Libris Rosetta.

The construct is to manage the metadata in Voyager (the authoritative source for objects it describes) and to manage the object in Ex Libris Rosetta. Any change to the bibliographic record in Voyager is updated in Ex Libris Rosetta.

The process is as follows:

- The Ex Libris Rosetta operator needs to find a Voyager bibliographic record using SRU/SRW.

  The SRU/SRW standard is implemented on the Voyager server to facilitate Ex Libris Rosetta functions. See Search on page 2-2 and What is SRU/SRW as it Relates to Voyager Ex Libris Rosetta Integration? on page 2-2 for more information regarding SRU/SRW.

- The Voyager system needs to identify bibliographic records that have a relationship to an object stored in Ex Libris Rosetta.

  A special bibliographic record flag is implemented to identify "exists in Ex Libris Rosetta."

- Changes to Voyager bibliographic records (that are flagged) need to be communicated to Ex Libris Rosetta.

  This is handled through a special extract/export process.

- Voyager users need to be able to access the Ex Libris Rosetta object from a Voyager WebVoyáge results display page URL link.

Search

A Ex Libris Rosetta operator needs to complete a search by one of the following methods:

- Search for a bibliographic record in Voyager using standard search indexes such as TALL.
- Retrieve the metadata record for a known Voyager bibliographic record ID number.

The Ex Libris Rosetta client sends the query data in a search/retrieve query, and Voyager returns a simple Dublin Core record to the Ex Libris Rosetta system.

The search/retrieve process is facilitated by the SRU/SRW standard.

What is SRU/SRW as it Relates to Voyager Ex Libris Rosetta Integration?

SRW stands for Search/Retrieve Web Service.

SRU stands for Search/Retrieve via URL. This is a NISO-registered standard for expressing queries using rich URLs to obtain XML responses that contain records matching the query.

SRU/SRW is implemented in Voyager using YAZ Proxy, an SRU/SRW to z39.50 gateway. See `http://indexdata.com/yazproxy` for more information regarding YAZ Proxy.

Voyager accepts SRU queries from Ex Libris Rosetta, searches its database for results, converts the MARC records to Dublin Core, and sends the Dublin Core records to Ex Libris Rosetta.

Configuration

The following files/directories contain formatting and SRU/SRW configuration settings for Voyager Ex Libris Rosetta integration:

- `/m1/voyager/xxxdb/etc/srusrw` where `xxxdb` is your database name.
- `/m1/voyager/xxxdb/ini/srusrwsvr.xml` where `xxxdb` is your database name.
- `/m1/voyager/xxxdb/ini/voyager.env` where `xxxdb` is your database name
- `/m1/voyager/xxxdb/etc/srusrw/MARC21slim2DPS.xsl` where `xxxdb` is your database name.

srusrwsvr.xml

The `srusrwsvr.xml` file is a configuration file for theYAZ Proxy server. It resides in `/m1/voyager/xxxdb/ini`.

Make a backup copy of `srusrwsvr.xml`.

Configure the following in `srusrwsvr.xml`:

- z39.50 server and port.
- SRU/SRW server address and port. The default port is PP91.
- Identification of the database being searched.

Sections needing modification have a `CHANGEME` comment near the lines of code to be modified. See line 10 of Figure 2-1 for example.

The comments identified in the <explain> element are displayed in the results of an Explain request. See line 112 of Figure 2-1 for example.

```
Line#
  1   <?xml version="1.0"?>
  2   <!-- $Id: voyager.xml,v 1.8 2006-04-06 17:23:14 adam Exp $ -->
  3   <proxy xmlns="http://indexdata.dk/yazproxy/schema/0.9/"
  4    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  5    xsi:schemaLocation="http://indexdata.dk/yazproxy/schema/0.9/
                yazproxy.xsd"
  6   >
  7     <!-- define default target and name it voyager -->
  8     <target default="1" name="voyager">
  9       <!-- all backend addresses as seen from this proxy .. -->
 10       <!-- CHANGEME: point at correct database z39.50 -->
 11       <url>10.100.2.36:17090</url>
 12
 13       <!-- set session timeout between proxy and backend target -->
 14       <target-timeout>300</target-timeout>
 15
 16       <!-- set session timeout between client and proxy.
 17       Should be lower than target-timeout -->
 18       <client-timeout>180</client-timeout>
 19
 20       <!-- if either bandwidth or pdu limit is reached the session is no
 21       longer kept alive -->
 22       <keepalive>
 23         <bandwidth>500000</bandwidth>
 24         <pdu>500</pdu>
 25       </keepalive>
 26
 27       <!-- client limits .. -->
 28       <limit>
 29         <bandwidth>200000</bandwidth>
 30         <pdu>31</pdu>
 31         <retrieve>50</retrieve>
 32         <search>15</search>
 33       </limit>
 34
```

Figure 2-1. srusrwsvr.xml example

```
Line#
  35        <!-- use attributes -->
  36        <attribute type="1" value="1-12,13-1010,1013-1023,1025-1030"/>
  37        <attribute type="1" value="*" error="114"/>
  38
  39        <!-- relation attributes -->
  40        <attribute type="2" value="1,2,3,4,5,6"/>
  41        <attribute type="2" value="*" error="117"/>
  42
  43        <!-- position attributes -->
  44        <attribute type="3" value="1,2,3"/>
  45        <attribute type="3" value="*" error="119"/>
  46
  47        <!-- structure attributes -->
  48        <attribute type="4" value="1,2,3,4,5,6"/>
  49        <attribute type="4" value="*" error="118"/>
  50
  51        <!-- truncation attributes -->
  52        <attribute type="5" value="1,100"/>
  53        <attribute type="5" value="*" error="120"/>
  54
  55        <!-- completeness attributes -->
  56        <attribute type="6" value="1,2,3"/>
  57        <attribute type="6" value="*" error="122"/>
  58
  59        <!-- other types -->
  60        <attribute type="*" value="*" error="113"/>
  61
  62        <!-- list allowed record syntaxes and possible schemas (if any);
  63        reject all others at the end -->
  64        <syntax type="opac"/>
  65        <syntax type="usmarc"/>
  66        <syntax type="none" backendtype="usmarc"/>
  67
  68        <syntax type="xml" marcxml="1"
  69          identifier="info:srw/schema/1/marcxml-v1.1"
  70          >
```

Figure 2-1. srusrwsvr.xml example (Continued)

```
Line#
  71        <title>MARCXML</title>
  72        <name>marcxml</name>
  73      </syntax>
  74      <syntax type="xml" marcxml="1" stylesheet="MARC21slim2SRWDC.xsl"
  75        identifier="info:srw/schema/1/dc-v1.1"
  76        >
  77        <title>Dublin Core</title>
  78        <name>dc</name>
  79      </syntax>
  80      <syntax type="xml" marcxml="1" stylesheet="MARC21slim2DPS.xsl"
  81        identifier="info:srw/schema/1/dc-v1.1"
  82        >
  83        <title>Dublin core for DPS</title>
  84        <name>dps</name>
  85      </syntax>
  86      <syntax type="xml" marcxml="1" stylesheet="MARC21slim2MODS.xsl"
  87        identifier="http://www.loc.gov/mods"
  88        >
  89        <title>MODS v2</title>
  90        <name>mods2</name>
  91      </syntax>
  92      <syntax type="xml" marcxml="1" stylesheet="MARC21slim2MODS3.xsl"
  93        identifier="info:srw/schema/1/mods-v3.0"
  94        >
  95        <title>MODS v3</title>
  96        <name>mods3</name>
  97        <name>mods</name>
  98      </syntax>
  99
 100      <syntax type="xml" marcxml="1" backendtype="opac"
 101        identifier="info:srw/schema/1/opacxml-v1.0"
 102        >
 103        <title>OPACXML</title>
 104        <name>opacxml</name>
 105      </syntax>
 106
```

Figure 2-1. srusrwsvr.xml example (Continued)

```
Line#
  107       <syntax type="*" error="238"/>
  108
  109       <!-- keep this number of spare sessions for future sessions -->
  110       <preinit>0</preinit>
  111
  112       <explain xmlns="http://explain.z3950.org/dtd/2.0/">
  113                 <!-- Comments in the explain element will be
  114                     included in the explainResponse
  115                 -->
  116         <serverInfo>
  117                 <!-- CHANGEME: set host name and port to listen on -->
  118                 <host>10.100.2.36</host>
  119                 <port>17091</port>
  120                 <database>voyager</database>
  121         </serverInfo>
  122
  123         <databaseInfo>
  124                 <!-- CHANGEME: set title and description -->
  125                 <title>qa654db gateway</title>
  126                 <description lang="en" primary="true">
  127                   SRW/SRU/Z39.50 Gateway to qa654db Z39.50 server
  128                 </description>
  129         </databaseInfo>
  130
  131         <indexInfo>
  132                 <set identifier="info:srw/cql-context-set/1/cql-v1.1"
  133                   name="cql"/>
  134                 <set identifier="info:srw/cql-context-set/1/dc-v1.1"
  135                   name="dc"/>
  136                 <set identifier="http://zing.z3950.org/cql/bath/2.0/"
  137                   name="bath"/>
  138
  139                 <index id="4">
  140                   <title>title</title>
  141                   <map><name set="dc">title</name></map>
  142                 </index>
```

Figure 2-1. srusrwsvr.xml example (Continued)

```
Line#
  143                <index id="21">
  144                  <title>subject</title>
  145                  <map><name set="dc">subject</name></map>
  146                </index>
  147                <index id="1003">
  148                  <title>creator</title>
  149                  <map><name set="dc">creator</name></map>
  150                  <map><name set="dc">author</name></map>
  151                </index>
  152
  153                <index id="1020">
  154                  <title>editor</title>
  155                  <map><name set="dc">editor</name></map>
  156                </index>
  157
  158                <index id="1018">
  159                  <title>publisher</title>
  160                  <map><name set="dc">publisher</name></map>
  161                </index>
  162
  163                <index id="62">
  164                  <title>description</title>
  165                  <map><name set="dc">description</name></map>
  166                </index>
  167
  168                <index id="30">
  169                  <title>date</title>
  170                  <map><name set="dc">date</name></map>
  171                </index>
  172
  173                <index id="1002">
  174                  <title>name</title>
  175                  <map><name set="bath">name</name></map>
  176                </index>
  177
  178                <index id="7">
```

Figure 2-1. srusrwsvr.xml example (Continued)

```
Line#
  179                 <title>isbn</title>
  180                 <map><name set="bath">isbn</name></map>
  181               </index>
  182               <index id="8">
  183                 <title>issn</title>
  184                 <map><name set="bath">issn</name></map>
  185               </index>
  186       </indexInfo>
  187
  188       <schemaInfo>
  189               <schema identifier="info:srw/schema/1/marcxml-v1.1"
  190                 sort="false" name="marcxml">
  191                 <title>MARCXML</title>
  192               </schema>
  193
  194               <schema identifier="info:srw/schema/1/dc-v1.1"
  195                 sort="false" name="dc">
  196                 <title>Dublin Core</title>
  197               </schema>
  198
  199               <schema identifier="info:srw/schema/1/dc-v1.1"
  200                 sort="false" name="dps">
  201                 <title>Dublin Core for DPS</title>
  202               </schema>
  203
  204               <schema identifier="http://www.loc.gov/mods"
  205                 sort="false" name="mods2">
  206                 <title>MODS v2</title>
  207               </schema>
  208
  209               <schema identifier="info:srw/schema/1/mods-v3.0"
  210                 sort="false" name="mods">
  211                 <title>MODS v3</title>
  212               </schema>
  213
  214       </schemaInfo>
```

Figure 2-1. srusrwsvr.xml example (Continued)

```
Line#
  215
  216       <configInfo>
  217         <default type="numberOfRecords">0</default>
  218       </configInfo>
  219     </explain>
  220    <cql2rpn>pqf.properties</cql2rpn>
  221   </target>
  222
  223
  224   <!-- maximum number of client sessions. Remember to allow for
  225      at least max-clients*2+5 sockets. Use 'ulimit -n 1040' on bash -->
  226   <max-clients>500</max-clients>
  227
  228   <!-- what we log. Allowed tokens: client-apdu, server-apdu,
  229   client-requests, server-requests -->
  230   <!-- <log>client-requests server-requests</log> -->
  231   <xlog></xlog>
  232   <max-connect>10</max-connect>
  233   <limit-connect>5</limit-connect>
  234 </proxy>
```

Figure 2-1. srusrwsvr.xml example (Continued)

voyager.env

The `voyager.env` file is located in `/m1/voyager/xxxdb/ini/` where `xxxdb` is your database name.

This file configures the environment for the voyager user, the UNIX userid under which the srusrwsvr runs.

Make a backup copy of `voyager.env`.

Configure `SRUSRWPORT` by updating the `export` line in Figure 2-2 with the correct port for the database. The default port is PP91.

```
## This is where the SRU/SRW Server will listen
export SRUSRWPORT=PP91
```

Figure 2-2. voyager.env configuration example

MARC21slim2DPS.xsl

The `MARC21slim2DPS.xsl` file is located in `/m1/voyager/xxxdb/etc/srusrw/` where `xxxdb` is your database name.

This file is the XSL transform that provides Dublin Core output for Ex Libris Rosetta. Additional files are included for different record formats such as Dublin Core, MODS, and so on. The other files are provided with the YAZ Proxy server.

NOTE:
Ex Libris Rosetta requires the use of the MARC21slim2DPS record format.

Make a backup copy of `MARC21slim2DPS.xsl`.

In the `MARC21slim2DPS.xsl` file, do the following:

- Replace `SRUSRWHOST` with the correct address (host name or IP address) for the repository.
- Replace `YYYDB` with the correct identifier for the repository .

See Figure 2-3.

The `SRUSRWHOST` and `YYYDB` variables should match the `<serverInfo><host>` and `<databaseInfo><title>` elements in `srusrwsvr.xml` (see Figure 2-1 on page 2-4 line 118 and line 125).

```
        <!-- CHANGEME: set the hostname and dbname to match
                the <serverInfo><host> and <databaseInfo><title>
                elements in srusrwsvr.xml
        -->
        <xsl:variable name="hostname">SRUSRWHOST</xsl:variable>
        <xsl:variable name="dbname">YYYDB</xsl:variable>
```

Figure 2-3. MARC21slim2DPS.xsl example

Flag Records

The purpose of the Voyager bibliographic record flag is to indicate if the record is stored in the Ex Libris Rosetta system. This is needed in order to support 1) the export of records from Voyager to Ex Libris Rosetta and 2) the URL creation in a WebVoyáge holdings display that provides a link from WebVoyáge to the item in Ex Libris Rosetta.

Setting a Voyager bibliographic record flag provides the following:

- It indicates which records should be extracted for conveying bibliographic updates to Ex Libris Rosetta.
- It indicates which records need to display a URL for the third-party component responsible for Ex Libris Rosetta delivery.

The Voyager bibliographic record flag is updated by a message sent from Ex Libris Rosetta. The Ex Libris Rosetta message's purpose is to set the flag value to true or false to indicate when the Voyager bibliographic record is stored in the Ex Libris Rosetta system.

Configuration

The necessary configuration changes to `web.xml` for flagging records is handled at installation time.

Export

Since Ex Libris Rosetta stores Voyager bibliographic data with its intellectual entities, there is a requirement for Voyager to export to the Ex Libris Rosetta system bibliographic data when it changes for only those records that are identified with a Y flag (see Flag Records on page 2-12). This is achieved through a dedicated record export process to synchronize the systems. Voyager exports the bibliographic records that have been updated since the last job run while Ex Libris Rosetta collects the record files for eventual import.

NOTE:
Optionally, specific records identified by bibliographic record ID number may be extracted within a range or individually. See Figure 2-4 or Table 3-1 on page 3-2 for more information.

By default, PpreservationExp (see PpreservationExp on page 3-2) extracts bibliographic records that have been updated since the last job run and packages them into files of 1000 records each. The file name for the file(s) created is voyager.oai_dc.yyMMddhhmmss.xml and placed in /m1/voyager/xxxdb/rpt/preservation/ where xxxdb is your database name.

Configuration

The following files are used for the export/extract process:

- /m1/voyager/xxxdb/ini/PreservationExp.ini where xxxdb is your database name.
- /m1/voyager/xxxdb/ini/PreservationExpChangedSince.txt where xxxdb is your database name.

PreservationExp.ini

The PreservationExp.ini file has been fully commented to assist with your customization. See Figure 2-4 for examples of the commenting.

The following parameters in PreservationExp.ini are required:

[PreservationExp] Stanza

- LogFileDir=
- LogFile=
- LogLevel=
- DatabaseHost=
- Database=
- DelBibsDir=
- DelBibFile=

[XMLWriterProtocol] Stanza

- RepositoryHost=
- RepositoryName=
- File=

(output file)

```
Line#
  1     # Configuration for Voyager Export for DPS-1.0
  2
  3     [PreservationExp]
  4     #
  5     #
  6     # BibRangeBegin
  7     # Extract bibliographic records in numeric order, starting with this
                one
  8     # Optional parameter, override on command line with -B
  9     # Use with BibRangeEnd
  10    #BibRangeBegin=1
  11    #
  12    #
  13    # BibRangeEnd
  14    # When extracting bibliographic records in numeric order, do not
  15    #  extract any with a bib id greater than this
  16    # Optional parameter, override on command line with -E
  17    # Use with BibRangeBegin
  18    #BibRangeEnd=200
  19    #
  20    #
  21    # BibsFromFile
  22    # Include the bibliographic records identified in the provided file.
  23    # The file is expected to be a text file with one bib id per line.
  24    # Optional parameter, override on command line with -F
  25    #BibsFromFile=/m1/voyager/2006.5.4/qa654db/local/bibs.txt
  26    #
  27    #
  28    # ChangedSince
  29    # Extract bibliographic records changed since some date/time.
  30    # Optional parameter, override on command line with -C
  31    # There are several forms of this parameter.
  32    # To extract changes since a specific date or date & time:
  33    #ChangedSince=YYYYMMDD.HHMMSS
  34    # To extract changes since the last (saved) run and save the
  35    # current run time, provide a full path to a writable file:
```

Figure 2-4. PreservationExp.ini example

```
Line#
  36    #ChangedSince=/m1/voyager/2006.5.4/qa654db/ini/
                PreservationExpChangedSince.txt
  37    #
  38    #
  39    # HeadingChanges
  40    # Extract bibliographic records affected by a heading
  41    #  text change.
  42    # This parameter requires ChangedSince be set
  43    # Optional parameter, override on command line with -H
  44    #HeadingChanges=Y
  45    HeadingChanges=N
  46    #
  47    #
  48
  49    # for filenames
  50    # note that $str$ will be passed to date format so that you can
  51    # specify date in the these files
  52
  53    # LogFileDir
  54    # Where to place a log file
  55    # Required parameter
  56    LogFileDir=/m1/voyager/2006.5.4/qa654db/log
  57
  58    # LogFile
  59    # The name of the log file, placed in $LogFileDir
  60    # Required parameter, override on command line with -L
  61    LogFile=dps.export.$yyyyMMddhhmmss$.log
  62
  63    # LogLevel
  64    # How much detail to log
  65    # Required parameter, override on command line with -v
  66    LogLevel=10
  67    # whether to duplicate log output to stdout
  68    LogToStdOut=N
  69
  70    # DatabaseHost
  71    # IP name or address of the Oracle database
```

Figure 2-4. PreservationExp.ini example (Continued)

```
Line#
  72    # Required Parameter
  73    DatabaseHost=10.100.2.32
  74
  75    # Database
  76    # Oracle SID
  77    # Required Parameter, do not change
  78    Database=VGER
  79
  80    # UserPass
  81    # The credentials needed to connect to the database.
  82    # Optional parameter, override on command line with -u
  83    # STRONG RECOMMENDATION: do not set this value here, use
  84    # the command line override instead.
  85    # Special note: Oracle TNS Alias (@DB) is _not_ used here
  86    #UserPass=user/pswd
  87
  88
  89    # Protocol
  90    # Internal configuration, do not change
  91    Protocol=com.endinfosys.voyager.extract.OaiPmhXmlWriterProtocol
  92
  93    # Task
  94    # Internal configuration, do not change
  95    Task=com.endinfosys.voyager.extract.PreservationExtractBibs
  96
  97    # DoItems
  98    # Internal configuration, do not change
  99    DoItems=N
 100
 101    # DoMfhds
 102    DoMfhds=N
 103    # Internal configuration, do not change
 104
 105    # DelBibsDir
 106    # Directory where a log of deleted bibliographic records can be found
 107    # Required parameter
```

Figure 2-4. PreservationExp.ini example (Continued)

```
Line#
  108   DelBibsDir=/m1/voyager/2006.5.4/qa654db/rpt
  109
  110   # DelBibFile
  111   # Name of file where deleted bibliographic records can be found
  112   # Required parameter
  113   DelBibFile=deleted.bib.marc
  114
  115   [XMLWriterProtocol]
  116   # recsPerGroup
  117   # Maximum number of records to include in a single file
  118   #  all in single group if 0 or undefined
  119   # Optional parameter
  120   recsPerGroup=1000
  121
  122   # RepositoryHost
  123   # Hostname for this repository from Preservation point of view.
  124   # Required parameter
  125   RepositoryHost=10.100.2.36
  126
  127   # RepositoryName
  128   # Name for this repository from Preservation point of view.
  129   # Should usually be the same as the database name.
  130   # Required parameter
  131   RepositoryName=qa654db
  132
  133   # Output File(s)
  134   # Template for naming output files.  The output
  135   # directory is relative to the runtime current
  136   # working directory.  The datestamp template should
  137   # include the time down to seconds.
  138   # Required parameter
  139   File=/m1/voyager/2006.5.4/qa654db/rpt/preservation/
                voyager.oai_dc.$yyMMddhhmmss$.xml
  140
  141   #
  142   # No changes below this line!
  143   #
```

Figure 2-4. PreservationExp.ini example (Continued)

```
Line#
  144
  145   # xsl template converting to DC, contained in jar file
  146   XSL=../etc/preservation/MARC21slim2DC.xsl
  147
  148   [OaiPmhXmlWriterProtocol]
  149   BibUpdate=com.endinfosys.voyager.extract.WriterTrans
  150   BibUpdate=com.endinfosys.util.TransUpdateRec:FlagUpdate
  151
  152   BibDelete=com.endinfosys.voyager.extract.WriterTrans
  153   BibDelete=com.endinfosys.util.TransUpdateRec:FlagDelete
  154
  155
  156   [TransUpdateRec]
  157   FlagUpdate=ASSIGN,action,m
  158
  159   FlagDelete=ASSIGN,action,d
  160   FlagDelete=ASSIGN,bib.000:5,d
  161   FlagDelete=MOVE,bib.035:a,bib_id
```

Figure 2-4. PreservationExp.ini example (Continued)

PreservationExpChangedSince.txt

The `PreservationExpChangedSince.txt` file contains date and time information from the last extraction processed. This information identifies where the subsequent extraction with `PpreservationExp` needs to start when date/time criteria is used for the extraction criteria.

This file is updated each time the job runs.

URL Creation

Discovery is a vital piece of the Ex Libris Rosetta solution. Voyager redirects users to a third-party viewing application for Ex Libris Rosetta intellectual entities when they are discovered through bibliographic searching in WebVoyáge. The URL provides the path.

WebVoyáge provides the following:

- Constructs and displays a URL with a bibliographic record ID number.

- Displays the URL on the item display page.
- Displays the URL only for records where the flag for existing in Ex Libris Rosetta is set to Y. (See Flag Records on page 2-12 for more information.)
- Navigates the user via the URL to the Ex Libris Rosetta component that subsequently takes the bibliographic record ID number from the URL and performs its own processing to deliver the Ex Libris Rosetta entity to the user.

Voyager 6.5.4 Configuration

The following files are used for configuration:

- `/m1/voyager/xxxdb/etc/webvoyage/[local, Z3950, vcit, zcit]/opac.ini` where `xxxdb` is your database name.
- `/m1/voyager/xxxdb/etc/webvoyage/[local, Z3950, vcit, zcit]/displayX.cfg` where `xxxdb` is your database name.
- `/m1/voyager/xxxdb/etc/webvoyage/[local, Z3950, vcit, zcit]/saveX.cfg` where `xxxdb` is your database name.
- `/m1/voyager/xxxdb/etc/webvoyage/[local, Z3950, vcit, zcit]/emailX.cfg` where `xxxdb` is your database name.

opac.ini

Add a stanza for the Ex Libris Rosetta URL and parameter names. See Figure 2-5.

```
[DPS]
DPSLinkLabel=DPS Link:
DPSLinkText=DPS related item
DPSLinkAddress=http://www.dps.com/getRecord?
DPSLinkParam=cmsId
```

Figure 2-5. opac.ini Preservation stanza example

displayX.cfg

Add the 3600 code for the Ex Libris Rosetta URL for Voyager version 6.5.4. See Figure 2-6.

```
DPS LINK:
    3600
```

Figure 2-6. displayX.cfg example

saveX.cfg

Add the 3600 code for the Ex Libris Rosetta URL for the print and export configuration file for Voyager version 6.5.4. See Figure 2-7.

```
DPS LINK:
    3600
```

Figure 2-7. saveX.cfg example

emailX.cfg

Add the 3600 code for the Ex Libris Rosetta URL for the e-mail output configuration file for Voyager version 6.5.4. See Figure 2-8.

```
DPS LINK:
    3600
```

Figure 2-8. emailX.cfg example

Voyager 7.0 (+) Configuration

The following files are used for configuration:

- `/m1/voyager/xxxdb/tomcat/vwebv/context/vwebv/ui/en_US/webvoyage.properties` where `xxxdb` is your database name.
- `/m1/voyager/xxxdb/tomcat/vwebv/context/vwebv/ui/en_US/xsl/contentLayout/configs/displaycfg.xml` where `xxxdb` is your database name.

webvoyage.properties

Add the Ex Libris Rosetta URL and parameter name in the holdingsInfo properties. See Figure 2-9.

```
holdingsInfo.DPSLinkLabel=DPS Link:
holdingsInfo.DPSLinkText=DPS related item
holdingsInfo.DPSLinkAddress=http://www.dps.com/getRecord?
holdingsInfo.DPSLinkParam=cmsId
```

Figure 2-9. webvoyage.properties configuration

displaycfg.xml

Add the 3600 code for the Ex Libris Rosetta URL for Voyager version 7.1. See Figure 2-10.

NOTE:
The code displays relative to where the code is placed in the file. If the code, for example, is placed after the code 3500 for the related bib, it shows up after the related bibliographic record is displayed.

```
    DPS LINK:
        3600
```

Figure 2-10. displaycfg.xml example

System

3

System

3

Purpose of This Chapter

The purpose of this chapter is to describe the following system components provided with Voyager Ex Libris Rosetta Integration.

- Scripts

  See Psrusrwsvr on page 3-1 and PpreservationExp on page 3-2.

- Logs

  See Logs on page 3-3.

Psrusrwsvr

To run the Voyager SRU/SRW server, use the `Psrusrwsvr` UNIX shell script.

The `Psrusrwsvr` starts the SRU/SRW server that reads the configuration file and responds to incoming queries.

`Psrusrwsvr` resides in `/m1/voyager/xxxdb/sbin/` where `xxxdb` is your database name.

PpreservationExp

The `PpreservationExp` batch job exports XML files of bibliographic records that conform to the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) schema and places them in the location identified by the `File=` parameter set in the `[XMLWriterProtocol]` stanza of `PreservationExp.ini`. See Export on page 2-12 for more information.

The `PpreservationExp` batch job is located in `/m1/voyager/xxxdb/sbin` where `xxxdb` is the database name.

Command Line Options

Command line options may be used when running `PpreservationExp` to override parameters set in `PreservationExp.ini`. Note the comments in `PreservationExp.ini` for more information.

Table 3-1. PreservationExp.ini command line options

Command	Description
-B	Use this option to specify the begin range parameter (record ID number) for identifying a range of bibliographic records to extract by record ID number. Use in combination with -E. This is one of multiple options for identifying bibliographic records to extract.
-E	Use this option to specify the end of range parameter (record ID number) for identifying a range of bibliographic records to extract by record ID number. Use in combination with -B. This is one of multiple options for identifying bibliographic records to extract.
-F	Use this option to specify the file name that contains a list of bibliographic record ID numbers to extract for export to Ex Libris Rosetta. This is one of multiple options for identifying bibliographic records to extract. **NOTE:** The ID numbers in the file must be entered one per line.

Table 3-1. PreservationExp.ini command line options

Command	Description
-C	Use this option to specify a date and/or date/time stamp to indicate a changed since timeframe to identify new or updated bibliographic records for extraction for export to Ex Libris Rosetta. See the `ChangedSince=` option in the `[Preservation-Exp]` stanza of the `PreservationExp.ini` file. This is one of multiple options for identifying bibliographic records to extract.
-H	Use this option to indicate that bibliographic records should be extracted for export to Ex Libris Rosetta if there has been a heading text change. Specify `Y` for yes and `N` for no. **IMPORTANT:** *This option requires that you use the `ChangedSince=` option in combination with it.*
-L	Use this option to specify the name of the log file. This is a required parameter.
-v	Use this option to indicate the level of detail to log.
-u	Use this option to specify the user/password credentials to connect to the database.

Logs

Logs are provided for your review to confirm processing and to assist with any processing discrepancies.

srusrwsvr.log

The SRU/SRW server generates a log called `srusrwsvr.log`.

The `srusrwsvr.log` log resides in `/m1/voyager/xxxdb/log/` where `xxxdb` is your database name.

dps.export.$yyyyMMddhhmmss$.log

Running the `PpreservationExp` batch job generates entries to a log file.

The log file directory and path name are identified in the `[PreservationExp]` stanza of the `PreservationExp.ini` file. See Figure 2-4 on page 2-14.

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