Voyager®
Bridge to INN-Reach User's Guide

March 2014

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About This Document

Purpose

This document provides the following.

- A description of the Voyager Bridge to INN-Reach.
- Instructions for customizing the Voyager Bridge to INN-Reach to meet your requirements.
- Instructions for completing the initial transmission of bibliographic, holdings, and item records consistent with the INN-Reach database format.
- Instructions for processing the on-going transmission of database updates of bibliographic, holdings, and item records consistent with the INN-Reach database format.

Intended Audience

This document is intended for Voyager® customers who have a requirement to transmit Voyager database information to an INN-Reach™ database. This document is written for a more technical audience responsible for the setup and on-going maintenance of the Voyager database and transmission of records to the INN-Reach system.

Reason for Reissue

This manual is being reissued for the following reasons:

- Corrected the data/time parameter in Table 2-2 on page 2-7 to -C
- Updated the guide format for consistency with the other user's guides

How to Use This Document

This document covers the Voyager configuration, initial load, and on-going maintenance/database update information for transmission of records to an INN-Reach database.

This document consists of the following:

Chapter 1	"Getting Started" Chapter 1 provides information about prerequisite skills and/or knowledge required for working with the Voyager Bridge to INN-Reach and a brief overview of preparatory tasks.
Chapter 2	"Configuring and Running Voyager Bridge to INN-Reach" Chapter 2 provides information about configuring and running the Voyager Bridge to INN-Reach.
Index	The Index is an alphabetical, detailed cross-reference of topics about which this document contains information.

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.
- 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 user-defined input (variables) such as **`ls -l`** ***`filename`*** are displayed in ***`constant width italic`*** 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 *ENCompass Web Client User's Guide* are displayed in *italic* type.
- System-generated responses such as error messages are displayed in `constant width` type.
- Caution, warning, and important notices are displayed with a distinctive label such as the following:

NOTE:
Information to keep in mind.

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

CAUTION:
Information you must consider before making a decision or configuration. Potential loss of data or system malfunction involved.

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

RECOMMENDED:
Preferred course of action or configutration.

OPTIONAL:
Indicates course of action which is not required, but may be taken to suit your preference.

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Getting Started

1

Introduction

The Voyager Bridge to INN-Reach provides the capability to transfer records from a Voyager database to the INN-Reach union catalog. This chapter describes some of the considerations and preparations for customizing and using the Voyager Bridge to INN-Reach.

Purpose of this Chapter

This chapter's purpose is to provide information about prerequisite skills and/or knowledge required for working with the Voyager Bridge to INN-Reach and a brief overview of preparatory tasks.

Prerequisite Skills and Knowledge

To use this document effectively, you need knowledge of the following.

- Microsoft® Interface navigation.
- UNIX® commands and navigation for working with a variety of files to tailor the configuration for your requirements and run batch jobs to transmit data between systems.
- Basic networking skills to properly customize the configuration file for transmission of records.

- Basic knowledge of your Voyager system setup, MARC record formats, and the INN-Reach union catalog for working with the bibliographic, holdings, and item records being transmitted.
- Voyager and INN-Reach systems capacity for determining number of records to transmit, frequency of transmissions, and time-of-day for transmissions.

Before You Begin

The installation of the Voyager Bridge to INN-Reach assumes that you have the following installed.

- Voyager (the base product)
- Java Runtime Environment
- Oracle JDBC
- INN-Reach union catalog

Checklist

In preparation for customizing and using the Voyager Bridge to INN-Reach, do the following.

- Identify the elements needed to customize the configuration file. See "Configuring and Running the Voyager Bridge to INN-Reach" on page 2-1 for more information.

  Provided by staff managing the INN-Reach server:

  — IP address of the INN-Reach server

  — IP port(s) the server uses for INN-Reach services such as record load and update

  — INN-Reach site code as specified by the consortium

  Provided by the consortium:

  — Item type map for converting Voyager item types to INN-Reach item types

  — Item status map for converting Voyager item statuses to INN-Reach item statuses

  Jointly decided:

  — Default values for item types and item statuses

- Determine the timeframe and processing for your initial transmission/data load and ongoing maintenance transmissions. See “Configuring and Running the Voyager Bridge to INN-Reach” on page 2-1 for more information.
  - — One initial transmission load or several over a number of days
  - — Timing of first maintenance update
  - — Run transmissions during normal production hours or after production hours (peak verus non-peak times for the Voyager and INN-Reach servers)

Configuring and Running the Voyager Bridge to INN-Reach

2

Introduction

This chapter describes the basic components of the Voyager Bridge to INN-Reach. This includes information regarding the Voyager Bridge to INN-Reach configuration file and processing the batch job.

Purpose of this Chapter

The purpose of this chapter is to define the basic components used in the Voyager Bridge to INN-Reach.

Voyager Bridge to INN-Reach Configuration File

One of the main components of the Voyager Bridge to INN-Reach is the configuration file, INNreach.ini, that is located in `/m1/ ... /xxxdb/ini/`. See Figure 2-1.

```
Line#
  1    "INNSample.ini" [Read only] 199 lines, 3960 characters
  2    [INN-Reach Server Address]
  3    # -s <ip>|<host>
  4    Address=localhost
  5
  6    [INN-Reach Server Ports]
  7    # -p <port>
  8    CatLoadUpdate=5432
  9
 10
 11    [Site Code]
 12    SiteCode=12345
 13
 14
 15    [Item Types]
 16    *=200
 17
 18    [Item Statuses]
 19    *=-
 20
 21    [Excluded Happening Locations]
 22    ACQ
 23
 24    [Exclude Operator Ids]
 25
 26    #
 27    # DO NOT MODIFY ANYTHING BELOW THIS LINE
 28    #
 29    [INNReachCatExp]
```

Figure 2-1. INNreach.ini file example

The configuration file defines the following elements:

- The IP address of the INN-Reach server.
- The IP port(s) the server uses for INN-Reach services such as record load and update.
- The INN-Reach site code as specified by the consortium.
- The item type map for converting Voyager item types to INN-Reach item types.
- The item status map for converting Voyager item statuses to INN-Reach item statuses.
- The default values for item types and item statuses.

The following list defines each of the stanzas located in the INN-Reach.ini file. See Table 2-1.

Table 2-1. INNreach.ini stanza definitions

Stanza	Definition
[INN-Reach Server Address]	IP address of the INN-Reach server entered in either IP or domain-name notation.
[INN-Reach Server Ports]	Valid IP port number for the INN-Reach service.
[Site Code]	Five-digit, alphanumeric INN-Reach code by which the Voyager database is known.

Table 2-1. INNreach.ini stanza definitions

Stanza	Definition
[Item Types]	Set of keys, one for each Voyager item type code. The value for each key is the INN-Reach item type code. The INN-Reach item type code must be numeric, three characters long. A default item type mapping must be defined using an asterisk (*) for the key and specifying a value. Example: Book=201 Ser=201 *=200 (Item Type Code as found in Voyager System Administration > System > Item Types.) Add the asterisk (*) value as the last value in the list. The [Item Types] values are read in sequential order. If there is no match, the asterisk (*) value is used. **NOTE:** If there are multiple entries with the same type, the last type defined in the sequential order is used. See the *Voyager System Administration User's Guide* for more information about item types.

Table 2-1. INNreach.ini stanza definitions

Stanza	Definition
[Item Statuses]	Set of keys, one for each Voyager item status. Each key is the ITEM_STATUS_DESC from ITEM_STATUS_TYPE. See the following list. NotCharged Charged Renewed Overdue RecallRequest HoldRequest OnHold InTransit InTransitDischarged InTransitOnHold Discharged Missing LostLibraryApplied Lost System Applied Claims Returned Damaged Withdrawn AtBindery CatalogReview CirculationReview Scheduled InProcess CallSlipRequest ShortLoanRequest RemoteStorageRequest The value for each key is a single character provided by the INN-Reach consortium. Non-alphanumeric ASCII characters may be specified as INN-Reach item status codes. A default item status mapping must be defined for any missing Voyager item statuses by using an asterisk (*) for the key and specifying a value. Example: Notcharged=- *=- (- = available) Add the asterisk (*) value as the last value in the list. The [Item Statuses] values are read in sequential order. If there is no match, the asterisk (*) value is used. **NOTE:** If there are multiple entries with the same status, the last status defined in the sequential order is used. See the *Voyager System Administration User's Guide* for more information about item statuses.

Table 2-1. INNreach.ini stanza definitions

Stanza	Definition
[Exclude Happening Locations]	Set of keys without values representing Voyager location codes from Voyager System Administration > System > Locations. Records last modified at one of these locations are excluded from the INN-Reach update process. For example, you may not want dynamically created records from Circulation or the Acquisitions client to transfer. See the *Voyager System Administration User's Guide* for more information about happening locations.
[Exclude Operator Ids]	Set of keys without values representing Voyager operator IDs from Voyager System Administration > Security > Operator Profiles. Example: demo acqclerk Records last modified by these operators are excluded from the INN-Reach update process. For example, you may want to exclude records created by circulation desk operators. See the *Voyager System Administration User's Guide* for more information about operator IDs.

Pinnreachcatexp Batch Job

The Voyager Bridge to INN-Reach batch job is invoked by a script in the Voyager database's `/sbin/` folder called `Pinnreachcatexp`. This can be run as part of a cron job by simply specifying `Pinnreachcatexp`; default parameters are supplied.

The command line parameters that can be used with the batch job are described in Table 2-2. In general, these parameters are primarily used with the initial transmission/data load. See “Initial Transmission/Data Load” on page 2-8.

Table 2-2. Pinnreachcatexp parameters

Parameters	Description
-B	Begin range. Specify bibliographic record ID value.
-E	End range. Specify bibliographic record ID value.
-R	Required bibliographic records. Use to transmit specific bibliographic records.
-C	Date and time to begin sending updates in MM/DD/YYYY:HH:MM format or YYYYMMDD[.HHMM[SS]]. S stands for since. This processes changes and new records based on date criteria. **NOTE:** If no time is specified, the job looks for updates to process from the beginning of the specified date starting at 12 midnight. Additionally, if no date is specified and no range of bibliographic records is specified, Pinnreachcatexp uses the date of the last successful run logged in /m1/ ... /xxxdb/rpt/success.marcrec.ucexp.yymmddhhmmss.
-v	Sets a different logging level. Use a numeric value 1 to 9. The higher values provide more detail in the log file for subsequent analysis.
-X	Exclude operator IDs. See “[Exclude Operator Ids]” on page 2-6.

Database Information Transmitted

The Voyager Bridge to INN-Reach program transmits the following information when the batch job is run.

- New/updated bibliographic, MFHD, and item records in a format compatible with the INN-Reach union catalog. New records identified for exclusion in the INNreach.cfg file are not transmitted.
- Delete requests for deleted bibliographic, MFHD, and item records in the Voyager database.

- Delete requests for MFHD/item records previously transmitted to the INN-Reach union catalog that have subsequently been suppressed from the Voyager OPAC.

In addition, several logs are created as a result of the transmission process and stored in `/m1/ ... /xxxdb/rpt/`. See Table 2-3 for more information.

Table 2-3. Log Files

Log File Name	Description
IIIReach.ucexp.YYMMDD	Captures messages generated during the data transmission such as the following. • Termination messages • Send messages • Deleted serials holdings messages • Deleted item record messages
success.marcrec.ucexp.yymmddhhmmss	marcrec.ucexp.yymmddhhmmss is renamed when the transmission of updates has successfully completed. **NOTE:** Provides the -S parameter time value for Pinnreachcatexp when no date or range of bibliographic records is specified.
ucexp.iii.yymmddhhmmss	Captures MARC records that are sent during transmission.
retry.ucexp.iii.yymmddhhmmss	Captures IDs of records that could not be sent due to some error. Pinnreachcatexp processes this file the next time it is run.
processed.retry.ucexp.iii.yymmddhhmmss	retry.ucexp.iii.yymmddhhmmss is renamed after it is processed. Any failures from this second attempt are logged in IIIReach.ucexp.YYMMDD.

Initial Transmission/Data Load

There are several considerations for running the first transmission of records with the Voyager Bridge to INN-Reach such as the following.

- Size/number of records to be transmitted
- Processing time required on the Voyager and INN-Reach servers

- Time of day/week/month to run the initial transmission
- Overlapping backup processing time (should be avoided)

In general, the results of these considerations lead most sites to choose to transmit subsets of the intended database over a period of time versus in one single transmission.

The Voyager Bridge to INN-Reach allows you to send subsets of the total number of bibliographic records by using the -B and -E parameters with bibliographic record ID values. Example:

```
Pinnreachcatexp -B<beginning record number> -E<ending
record number>
```

See Table 2-2 for more information about specific parameters.

You can also use the -B and -E parameters to determine processing time and the size of your subsets. For example, use the following run parameters to get some approximate processing time estimates:

```
Pinnreachcatexp -E1000
```

NOTE:
This example defaults to a -B value of zero on your first run. Check the IIIReach.ucexp.YYMMDD log file located in `/m1/ ... /xxxdb/rpt/` for the processing time of the batch job.

For subsequent subset runs, specify:

```
Pinnreachcatexp -B<last+1> -E<last+desired>
```

or more specifically,

```
Pinnreachcatexp -B1001 -E5000
```

If the initial load takes place over a period of days, records updated during those days will not have been transmitted by the initial load process. To incorporate the updated bibliographic records in a transmission, run the first maintenance job (after the initial transmission period) using the date of the first day that the initial load was run. Example:

```
Pinnreachcatexp -S<date/time first sent>
```

Delete Logs

When doing your initial load, you may want to rename or move the following files to a different directory.

- deleted.bib.marc

- delete.item
- deleted.mfhd.marc

Otherwise, the program tries to process any deletes and send them to the INN-Reach system.

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