



**Voyager<sup>®</sup> 9.1**  
**Voyager InterCirc<sup>™</sup> - NCIP User's**  
**Guide**

November 2014

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## About This Document

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### **Purpose**

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This document provides the following:

- A description of Voyager InterCirc™ - NCIP.
- Instructions for customizing Voyager InterCirc - NCIP to meet your requirements.

### **Intended Audience**

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This document is intended for Voyager® customers who have a requirement to do the following:

- Loan Voyager database items to non-Voyager (consortium) patrons
- Circulate items to local Voyager patrons using the Universal Resource Sharing Application (URSA)™
- Circulate items to local Voyager patrons using the Relais ILL
- Circulate items to local Voyager patrons using the OCLC Navigator

This document is written for a technical audience responsible for the following:

- Setup of configuration parameters for circulation of Voyager items to non-Voyager (consortium) patrons using URSA or Relais ILL

- Setup of configuration parameters for circulation of URSA, Relais ILL, or OCLC Navigator items to local Voyager patrons
- Review/analysis of message logs as needed

## **Reason for Reissue**

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This manual incorporates and is being issued for the following reasons:

- Added the new chapter [Item Blocks](#) on [page 4-1](#)
- Updated [Summary for Lending](#) on [page 3-10](#) with Item Blocks information
- Updated [Voyager System Administration Setup](#) on [page 3-1](#) to include operator ID/Circulation Profile information

## **How to Use This Document**

---

This document consists of the following.

- |                            |  |
|----------------------------|--|
| Chapter <a href="#">1</a>  | <a href="#">“Getting Started”</a><br>Chapter <a href="#">1</a> provides information about prerequisite skills and/or knowledge required for working with Voyager InterCirc - NCIP and a brief overview of preparatory tasks. |
| Chapter <a href="#">2</a>  | <a href="#">“Configuring and Running Voyager InterCirc - NCIP”</a><br>Chapter <a href="#">2</a> provides information about configuring and running Voyager InterCirc - NCIP.   |
| Chapter <a href="#">3</a>  | <a href="#">“Voyager Module Setup Considerations”</a><br>Chapter <a href="#">3</a> provides information about customizing Voyager modules.   |
| Chapter <a href="#">5</a>  | <a href="#">“Messages”</a><br>Chapter <a href="#">5</a> provides information about diagnostic error messages.  |
| Appendix <a href="#">A</a> | <a href="#">“NCIP Support”</a><br>Appendix <a href="#">A</a> describes Voyager support for the NCIP (National Circulation Interchange Protocol) - NISO Standard (Z39.83).  |
| Index                      | The Index is an alphabetical, detailed cross-reference of topics.  |



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## Conventions Used in This Document

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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 *ENCompass Web Client 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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**Introduction**

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Voyager InterCirc - NCIP provides the following capabilities:

- Circulation of URSA, Relais ILL, or OCLC Navigator items to local Voyager patrons
- Circulation of local Voyager items to URSA, Relais ILL, or OCLC Navigator patrons

This chapter describes considerations and preparations for customizing and using Voyager InterCirc - NCIP.

**Purpose of this Chapter**

---

This chapter's purpose is to provide information about prerequisite skills and/or knowledge required for working with Voyager InterCirc - NCIP 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 files to match your requirements
- Basic knowledge of your Voyager System Administration setup and the URSA, Relais ILL, or OCLC Navigator environments as related to processing circulation transactions

## **Before You Begin**

---

The installation of Voyager InterCirc - NCIP assumes that you have the following installed/set up:

- Voyager (the base product)
- Java Runtime Environment
- Oracle JDBC
- Universal Resource Sharing Application (URSA), Relais ILL, or OCLC Navigator
- Tomcat
- Voyager Z39.50
- Open firewall to enable sending outgoing HTTP requests

More information about components and configuration details are provided in the chapter entitled [Configuring and Running Voyager InterCirc - NCIP](#) on [page 2-1](#).

## **Checklist**

---

In preparation for customizing and using Voyager InterCirc - NCIP, identify the following elements needed to customize the configuration file:

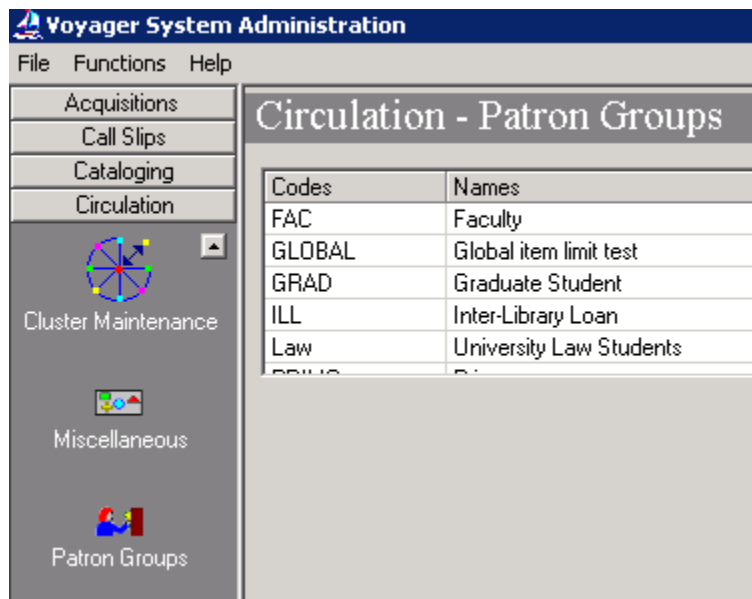
- Agency identifiers (prescribed by the consortium)
  - NCIP Agency ID for the URSA, Relais ILL, or OCLC Navigator server site
  - NCIP Agency ID for your local (Voyager) site
  - NCIP Agency ID scheme(s) in which those IDs are registered

- Local (Voyager) configuration considerations
  - Operator ID to be used to record URSA, Relais ILL, or OCLC Navigator transactions in Voyager
  - Type of patron validation required by your site (barcode or institution ID)
  - Item type to be used for remote items borrowed by local (Voyager system) patrons
  - Location where remote items are held locally (Voyager site)
  - Location where remote items may be picked up by local patrons
  - Special system patron to be charged by Voyager Circulation with all local items lent to remote patrons
  - Patron group and circulation policy with unlimited privileges for the special system patron
  - Location where local items are charged to special system patron on behalf of the remote patron
  - Location from which local items are mailed to remote libraries
  - Common circulation policies
  - Expected time in days it takes for a local item to be returned from the remote library
  - Call Slip configuration that can be used to retrieve items requested by remote libraries

See [Voyager System Administration Setup](#) on [page 3-1](#) and [Create Call Slip Queue/Considerations](#) on [page 3-7](#) for more information.

For the Relais ILL environment, the Voyager system administrator needs to:

- Provide a list of the Circulation patron group codes for the Relais ILL component with information on how the IDs map to Relais
- These codes are listed in Circulation - Patron Groups in Voyager System Administration. See [Figure 1-1](#).



**Figure 1-1. Circulation - Patron Groups codes**

For the OCLC Navigator environment, the Voyager system administrator needs to:

- Set up the OCLC composite index definition in Search - Indexes - Composite Definitions in the Voyager System Administration module (see [Determine Circulation Policies](#) on [page 3-2](#))

---

# Configuring and Running Voyager InterCirc - NCIP

# 2

---

## Introduction

The Voyager system has the flexibility to circulate items with other non-Voyager systems. Voyager InterCirc - NCIP is one option that demonstrates this flexibility.

---

## Purpose of this Chapter

The purpose of this chapter is to describe the following:

- The basic components of Voyager InterCirc - NCIP
- How to configure the `intercirc-ursa.ini` file
- How to configure the `oclc-navigator.ini` file

---

## Components

The primary components in a Voyager InterCirc - NCIP installation are the following:

- External system such as URSA (Universal Resource Sharing Application), Relais ILL, or OCLC Navigator

This software interacts with the local (Voyager) database by acting as a client to the Voyager InterCirc - NCIP bridge and to the Z39.50 server.

- Voyager InterCirc - NCIP  
The software that directly interfaces with your local (Voyager) database and services NCIP (National Circulation Interchange Protocol) messages that are initiated by external system. This is the software that runs at your local site and is described in this document.
- Z39.50 Server  
The standard Voyager Z39.50 server needs to be installed and running at your local site in order for the external system to search for bibliographic records. See the *Voyager System Administration User's Guide* for more information about Z39.50.

## Voyager InterCirc - NCIP Configuration for URSA and Relais ILL

---

The key components of Voyager InterCirc - NCIP are the configuration files. For URSA and Relais ILL, it is the `intercirc-ursa.ini` file that is located in `/m1/voyager/xxxxdb/tomcat/ncip/ini/` where `xxxxdb` is your database name. See [Figure 2-1](#).

```
## Configuration for Voyager Intercirc-Ursa

[General]
OperatorId=NCIP
TypeOfVerificationId=PatronBarcode
CircClusterCode=
VACS OPAC connection=qa724dbOPAC
VACS CIRC connection=qa724dbCIRC

[LocalSite]
AgencyId=VOYAGER
AgencyIdScheme=http://www.dynix.com/ncip/schemes/agency.scm

[URSASite]
AgencyId=URSA
AgencyIdScheme=http://www.dynix.com/ncip/schemes/agency.scm
```

---

**Figure 2-1.** `intercirc-ursa.ini` example



```
[Borrowing]
UrsaItemTypeCode=NCIPitem
ItemLocationCode=NCIPloc
UseDefaultPickupLocation=Y
PickupLocationCode=CIRC

[Lending]
UrsaPatronBarcode=REMOTE-BORROWER
ChargeLocationCode=CIRC
UseDefaultPickupLocation=Y
PickupLocationCode=CIRC
ReturnTransitPeriod=1
DefaultPatronGroupCode=FAC

## Configuration for NCIP

[NCIP]
VersionSupported=1.0
DisableSchemeChecking=Y
ReflectRequestDiagnostic=N
LogRequestTraffic=

##### internal use only #####

[qa724dbOPAC]
## configuration for a Voyager OPAC connection
HostName=
PortNum=
ServerAppCode=OPAC

[qa724dbCIRC]
## configuration for a Voyager CIRCSVR connection
HostName=
PortNum=
ServerAppCode=CIRC
```

**Figure 2-1.** intercirc-ursa.ini example (Continued)

```
##
##-----
## DO NOT MAKE CHANGES BELOW THIS LINE
## UNLESS YOU'RE SURE YOU KNOW WHAT YOU'RE DOING
##-----
##

[NCIP Services]
AcceptItem=com.endinfosys.voyager.ncip.messages.AcceptItemMsgTransaction
CancelRequestItem=com.endinfosys.voyager.ncip.messages.CancelRequestItemMsgTransaction
CheckInItem=com.endinfosys.voyager.ncip.messages.CheckInItemMsgTransaction
CheckOutItem=com.endinfosys.voyager.ncip.messages.CheckOutItemMsgTransaction
CreateUser=com.endinfosys.voyager.ncip.messages.CreateUserMsgTransaction
LookupItem=com.endinfosys.voyager.ncip.messages.LookupItemMsgTransaction
LookupUser=com.endinfosys.voyager.ncip.messages.LookupUserMsgTransaction
LookupVersion=com.endinfosys.voyager.ncip.messages.LookupVersionMsgTransaction
RenewItem=com.endinfosys.voyager.ncip.messages.RenewItemMsgTransaction
RequestItem=com.endinfosys.voyager.ncip.messages.RequestItemMsgTransaction
```

---

**Figure 2-1. intercirc-ursa.ini example (Continued)**

**NOTE:**

Parameters and stanzas that have URSA in the naming convention also apply to Relais ILL installations.

The `intercirc-ursa.ini` configuration file defines a number of components in the Voyager InterCirc - NCIP environment to include some of the following elements:

- Name and ID of the URSA or Relais ILL server
- Temporary record creation information for URSA or Relais ILL items being borrowed by Voyager's local patrons

This includes the following:

- Patron identification method such as barcode or institution ID number
- Item type code assigned to the URSA or Relais ILL item being borrowed

- Item location code assigned to the URSA or Relais ILL item being borrowed
- Pickup location code assigned to the URSA or Relais ILL item being borrowed
- Identification of the Voyager patron used for lending items to the URSA or Relais ILL libraries/patrons
- Charge location code and pickup location code for items being sent to URSA or Relais ILL libraries/patrons
- Estimate of in-transit time frame (in days) for returning an item from an URSA or Relais ILL location to the Voyager library that owns the item
- Identification of the version of Voyager InterCirc - NCIP that is supported

Configuration of Voyager for the URSA or Relais ILL environments assumes that if your site has multiple clusters, you can choose one of the clusters for NCIP purposes.



**IMPORTANT:**

*NCIP can only deal with one cluster in a multi-cluster installation.*

### **Stanza Definitions for `intercirc-ursa.ini`**

---

This section defines the stanzas in the `intercirc-ursa.ini` file that need to be tailored for Voyager InterCirc - NCIP.

The following is a list of the stanzas in the `intercirc-ursa.ini` file that need to be customized:

- [General]
- [LocalSite]
- [URSASite]
- [Borrowing]
- [Lending]
- [NCIP]
- [xxxxdb OPAC]
- [xxxxdb CIRC]

#### **[General]**

The [General] stanza contains the following parameters:



- OperatorId
- TypeOfVerificationId
- CircClusterCode
- VACS OPAC connection
- VACS CIRC connection

See [Table 2-1](#) for a description of these parameters.

**Table 2-1. [General] Stanza Parameter Definitions**

Parameter	Definition
OperatorId (Required)	<p>Specify the operator ID that is set up in Voyager System Administration for this application.</p> <p>This operator ID is used to conduct URSA or Relais ILL transactions in the Voyager database.</p> <p>This must be a valid operator ID with the privileges to do the following:</p> <p>Cataloging Module</p> <ul style="list-style-type: none"> <li>• Add bibliographic records</li> <li>• Add holding records</li> <li>• Attach holdings to any bibliographic record</li> <li>• Add item records</li> <li>• Available location includes the one defined in the [Borrowing] stanza ItemLocationCode</li> </ul> <p>Circulation Module</p> <ul style="list-style-type: none"> <li>• Place and cancel hold and recall requests</li> <li>• Add/update item records</li> <li>• Charge, discharge, and renew items</li> <li>• Available locations include all the ones defined in the <code>intercirc-ursa.ini</code> file</li> <li>• Add/update patron records (an URSA 4.0 requirement)</li> </ul>

Table 2-1. [General] Stanza Parameter Definitions

Parameter	Definition
TypeOfVerificationId (Required)	Specify method for identifying patrons.  Options include the following: <ul style="list-style-type: none"> <li>• PatronBarcode</li> <li>• InstitutionID</li> </ul> This option affects how Voyager processes LookUpUser messages.  <b>NOTE:</b> The method selected should match the method used for patron identification in the OPAC.
CircClusterCode (Required for multi-cluster)	Use to define the one circulation cluster code to be used in a multi-cluster installation.  <b>NOTE:</b> No value needs to be specified for single-cluster or nonclustered installations.
VACS OPAC connection (Required)	Specify your database name followed by OPAC. This points to the [xxxxdb OPAC] stanza.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
VACS CIRC connection (Required)	Specify your database name followed by CIRC. This points to the [xxxxdb CIRC] stanza.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>

**[LocalSite]**

The [LocalSite] stanza contains the following parameters:

- AgencyId
- AgencyIdScheme

**NOTE:**

If your installation requires a unique server identifier for a multiple-server environment, contact Ex Libris Customer Support for assistance.

See [Table 2-2](#) for a description of these parameters.

**Table 2-2. [LocalSite] Stanza Parameter Definitions**

Parameter	Definition
AgencyId (Required)	Specify a unique identifier by which your local Voyager site is known to the URSA or Relais ILL server.  This corresponds to the NCIP <code>InitiationHeader.ToAgencyId.UniqueAgencyId.Value</code> data element that is provided to Voyager by the URSA or Relais ILL server and the <code>ResponseHeader.FromAgencyId.UniqueAgencyId.Value</code> data element that is provided to the URSA or Relais ILL server by Voyager.
AgencyIdScheme (Required)	Specify the URI that contains a list of agency IDs (list of libraries) for the consortium.  This corresponds to the NCIP <code>InitiationHeader.ToAgencyId.UniqueAgencyId.Scheme</code> data element that is provided to Voyager by the URSA or Relais ILL server and the <code>ResponseHeader.FromAgencyId.UniqueAgencyId.Scheme</code> data element that is provided to the URSA or Relais ILL server by Voyager.

**NOTE:**

The `.scm` file-naming convention as used in [Figure 2-1](#) indicates an NCIP scheme file.

**[URSASite]**

The `[URSASite]` stanza contains the following parameters:

- AgencyId
- AgencyIdScheme

**NOTE:**

If your installation requires a unique system identifier for a multiple-server environment, contact Ex Libris Customer Support for assistance.

See [Table 2-3](#) for a description of these parameters.

**Table 2-3. [URSA] Stanza Parameter Definitions**

Parameter	Definition
AgencyId (Required)	Specify a unique identifier for the remote site running the URSA or Relais ILL server.  This corresponds to the NCIP <code>ResponseHeader.ToAgencyId.UniqueAgencyId.Value</code> data element.
AgencyIdScheme (Required)	Specify the URI that contains the list of agency IDs (list of servers) for the consortium.  This corresponds to the NCIP <code>ResponseHeader.FromAgencyId.UniqueAgencyId.Scheme</code> data element.

**NOTE:**

The `.scm` file-naming convention as used in [Figure 2-1](#) indicates an NCIP scheme file.

**[Borrowing]**

Information supplied by the parameters in the `[Borrowing]` stanza is used to create temporary item records for Voyager circulation purposes when a Voyager patron borrows an item from an URSA or Relais ILL library.

The `[Borrowing]` stanza contains the following parameters:

- `UrsaItemTypeCode`
- `ItemLocationCode`
- `UseDefaultPickupLocation`
- `PickupLocationCode`

See [Table 2-4](#) for a description of these parameters.

**Table 2-4. [Borrowing] Stanza Parameter Definitions**

Parameter	Definition
UrsaItemTypeCode (Required)	<p>Specify the item type for the URSA or Relais ILL consortium items.</p> <p>This item type code may represent an existing item type or a newly created item type that is used exclusively with URSA or Relais ILL.</p> <p>Creating a new item type code for these items makes it easier to keep track of them.</p> <p>See <a href="#">Temporary Records</a> on <a href="#">page 3-11</a> for reasons to consider the use of a new item type.</p> <p>Voyager does not verify that this code corresponds to an item type defined in the ITEM_TYPE table.</p> <p>The <code>UrsaItemTypeCode</code> variable could be <code>book</code> or <code>foreign item</code> for example.</p>
ItemLocationCode (Required)	<p>Specify the item location of temporary bibliographic/holdings/items that represent consortium-owned items.</p> <p>This value must be identical to a value from <code>LOCATION.location_code</code>.</p> <p>This location code may represent an existing location or a newly created location that is used exclusively with URSA or Relais ILL.</p>
UseDefaultPickupLocation (Required)	<p>Use this option to specify if the To Agency ID field is to be used or the value for <code>PickupLocationCode</code> is to be used.</p> <p>Y=use the value specified for <code>PickupLocationCode</code></p> <p>N=use the pickup location from the To Agency ID field</p>
PickupLocationCode (Required)	<p>Specify the location at the local library to which URSA or Relais ILL items are sent for local patrons.</p> <p>This must be a valid <code>LOCATION.location_code</code> value.</p>



**[Lending]**

Information supplied by the parameters in the [Lending] stanza is used to provide alias Voyager patron information for an URSA or Relais ILL library/patron in order to lend an item to the URSA or Relais ILL library/patron. This stanza also provides location information needed by Voyager for the lending process and identifies an in-transit time frame for estimating the return time frame of items.

The [Lending] stanza contains the following parameters:

- UrsaPatronBarcode
- ChargeLocationCode
- UseDefaultPickupLocation
- PickupLocationCode
- ReturnTransitPeriod
- DefaultPatronGroupCode

See [Table 2-5](#) for a description of these parameters.

**Table 2-5. [Lending] Stanza Parameter Definitions**

Parameter	Definition
UrsaPatronBarcode (Required)	<p>Specify the unique barcode associated with the Voyager system patron created for the purpose of lending Voyager local items to an URSA or Relais ILL patron.</p> <p>The Voyager system patron is held responsible within the Voyager system for all requests and charges made by URSA or Relais ILL on behalf of patrons at other libraries. For this reason, the Voyager system patron needs to have unlimited requesting and borrowing privileges and a separate patron group should be defined for this patron.</p> <p><b>NOTE:</b> URSA or Relais ILL recommendations may include that you create more than one Voyager system patron. However, this is not necessary in Voyager. If you decide to create multiple Voyager system patrons, give them distinct barcodes and place only one in the <code>intercirc-ursa.ini</code> file at a time.</p>

**Table 2-5. [Lending] Stanza Parameter Definitions**

<b>Parameter</b>	<b>Definition</b>
ChargeLocationCode (Required)	Specify the location code used to identify a circulation desk for use in charging Voyager local items to an URSA or Relais ILL patron.
UseDefaultPickupLocation (Required)	Use this option to specify if the To Agency ID field is to be used or the value for PickupLocationCode is to be used.  Y=use the value specified for PickupLocationCode N=use the pickup location from the To Agency ID field
PickupLocationCode (Required)	Specify the location within the Voyager local library that has responsibility for handling the distribution (mailing) of Voyager items to the requesting URSA or Relais ILL patrons/libraries.  This location is printed on Call Slip requests.  The PickupLocationCode value must be identical to a value from LOCATION.location_code.
ReturnTransitPeriod (Required)	Specify the anticipated time (in days) that it takes an item to be returned to the Voyager local library from the URSA or Relais ILL consortium library.  This number is used in combination with the due date information to determine the return time frame of an item.
DefaultPatronGroupCode (Required)	Specify the group code to be used when an NCIP Create User message is encountered.  A patron group ID is required to create a patron. This code must be used to lookup the ID.



**[NCIP]**

The [NCIP] stanza contains the following parameters:

- VersionSupported
- DisableSchemeChecking
- ReflectRequestDiagnostic
- LogRequestTraffic

See [Table 2-6](#) for a description of these parameters.

**Table 2-6. [NCIP] Stanza Parameter Definition**

Parameter	Definition
VersionSupported (Required)	Specify the version of Voyager InterCirc - NCIP installed on the server.  This parameter provides for the option of version checking with future releases.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
DisableSchemeChecking (Required) (Not case sensitive)	Specify Y (yes) or N (no) for this option.  The Y option is required for interaction with the current URSA or Relais ILL server.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
ReflectRequestDiagnostic (Optional) (Not case sensitive)	Specify Y (yes) or N (no) for this option.  When set to Y, a copy of the incoming request is sent back to the client in the form of an XML comment preceding the server response message.  This attribute can be enabled for diagnostic purposes.
LogRequestTraffic (Optional)	Specify the path of a directory in which to log a copy of every request and every response sent out such as <code>/ml/voyager/xxxxdb/tomcat/ncip/logs/log-traffic</code> .  Specifying a path for this parameter enables this diagnostic feature.




### [xxxxdb OPAC]

The [xxxxdb OPAC] stanza contains the following parameters:

- HostName
- PortNum
- ServerAppCode

See [Table 2-7](#) for a description of these parameters.

**Table 2-7. [xxxxdb OPAC] Stanza Parameter Definition**

Parameter	Definition
HostName (Required)	Specify the host name.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
PortNum (Required)	Specify the port number.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
ServerAppCode (Required)	Specify the server application code.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>



**[xxxxdb CIRC]**

The [xxxxdb CIRC] stanza contains the following parameters:


- HostName
- PortNum
- ServerAppCode

See [Table 2-8](#) for a description of these parameters.

**Table 2-8. [xxxxdb CIRC] Stanza Parameter Definition**

Parameter	Definition
HostName (Required)	Specify the host name.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
PortNum (Required)	Specify the port number.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>

**Table 2-8. [xxxxdb CIRC] Stanza Parameter Definition**

Parameter	Definition
ServerAppCode (Required)	Specify the server application code.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>

## Voyager InterCirc - NCIP Configuration for OCLC Navigator

The key components of Voyager InterCirc - NCIP are the configuration files. For OCLC Navigator, it is the `oclc-navigator.ini` file that is located in `/m1/voyager/xxxxdb/tomcat/ncip/ini/` where `xxxxdb` is your database name. See [Figure 2-2](#).

```
[General]
OperatorId=URSA-NCIP
TypeOfVerificationId=PatronBarcode
CircClusterCode=
VACS OPAC connection=@DBNAME@OPAC
VACS CIRC connection=@DBNAME@CIRC

[LocalSite]
AgencyId=VOYAGER
AgencyIdScheme=http://www.dynix.com/ncip/schemes/agency.scm

[URSASite]
AgencyId=URSA
AgencyIdScheme=http://www.dynix.com/ncip/schemes/agency.scm

[Borrowing]
UrsaItemTypeCode=ursancip
ItemLocationCode=main
UseDefaultPickupLocation=Y
PickupLocationCode=main
```

**Figure 2-2. oclc-navigator.ini example**

```

[Lending]
UrsaPatronBarcode=URSAREMOTEBORROWER
ChargeLocationCode=main
UseDefaultPickupLocation=Y
PickupLocationCode=main
ReturnTransitPeriod=1
DefaultPatronGroupCode=FAC

[AllServices]
UserIdPrefix=USR
ItemIdPrefix=ITM
BibliographicIdPrefix=BIB
UniqueUserIdType=Barcode
UniqueUserIdReturnType=UserId
UniqueItemIdType=ItemId
UniqueItemIdReturnType=ItemId

## Configuration for NCIP

[NCIP]
VersionSupported=1.0
DisableSchemeChecking=Y
ReflectRequestDiagnostic=N
LogRequestTraffic=

##### internal use only #####

[@DBNAME@OPAC]
## configuration for a Voyager OPAC connection
HostName=@OPAC_SERVER_HOST@
PortNum=@OPAC_SERVER_PORT@
ServerAppCode=OPAC

[@DBNAME@CIRC]

```

**Figure 2-2. oclc-navigator.ini example (Continued)**

```

## configuration for a Voyager CIRCSVR connection
HostName=@CIRC_SERVER_HOST@
PortNum=@CIRC_SERVER_PORT@
ServerAppCode=CIRC

##
##-----
## DO NOT MAKE CHANGES BELOW THIS LINE
## UNLESS YOU'RE SURE YOU KNOW WHAT YOU'RE DOING
##-----
##

[NCIP Services]
AcceptItem=com.endinfosys.voyager.ncip.messages.AcceptItemMsgTransaction
CancelRequestItem=com.endinfosys.voyager.ncip.messages.CancelRequestItemMsgTransaction
CheckInItem=com.endinfosys.voyager.ncip.messages.CheckInItemMsgTransaction
CheckOutItem=com.endinfosys.voyager.ncip.messages.CheckOutItemMsgTransaction
CreateUser=com.endinfosys.voyager.ncip.messages.CreateUserMsgTransaction
LookupItem=com.endinfosys.voyager.ncip.messages.LookupItemMsgTransaction
LookupUser=com.endinfosys.voyager.ncip.messages.LookupUserMsgTransaction
LookupVersion=com.endinfosys.voyager.ncip.messages.LookupVersionMsgTransaction
RenewItem=com.endinfosys.voyager.ncip.messages.RenewItemMsgTransaction
RequestItem=com.endinfosys.voyager.ncip.messages.RequestItemMsgTransaction

```

**Figure 2-2. oclc-navigator.ini example (Continued)**

The `oclc-navigator.ini` configuration file defines a number of components in the Voyager InterCirc - NCIP environment to include some of the following elements:

- Name and ID of the OCLC Navigator server
- Temporary record creation information for OCLC Navigator items being borrowed by Voyager's local patrons

This includes the following:

- Patron identification method such as barcode or institution ID number
- Item type code assigned to the OCLC Navigator item being borrowed

- Item location code assigned to the OCLC Navigator item being borrowed
- Pickup location code assigned to the OCLC Navigator item being borrowed
- Identification of the Voyager patron used for lending items to the OCLC Navigator libraries/patrons
- Charge location code and pickup location code for items being sent to OCLC Navigator libraries/patrons
- Estimate of in-transit time frame (in days) for returning an item from an OCLC Navigator location to the Voyager library that owns the item
- Identification of the version of Voyager InterCirc - NCIP that is supported

Configuration of Voyager for the OCLC Navigator environment assumes that if your site has multiple clusters, you can choose one of the clusters for NCIP purposes.



**IMPORTANT:**

*NCIP can only deal with one cluster in a multi-cluster installation.*

### **Stanza Definitions for oclc-navigator.ini**

---

This section defines the stanzas in the `oclc-navigator.ini` file that need to be tailored for Voyager InterCirc - NCIP.

The following is a list of the stanzas in the `oclc-navigator.ini` file that need to be customized:

- [General]
- [LocalSite]
- [URSASite]
- [Borrowing]
- [Lending]
- [AllServices]
- [NCIP]
- [xxxxdb OPAC]
- [xxxxdb CIRC]



**[General]**

The [General] stanza contains the following parameters:



- OperatorId
- TypeOfVerificationId
- CircClusterCode
- VACS OPAC connection
- VACS CIRC connection

See [Table 2-1](#) for a description of these parameters.

**Table 2-9. [General] Stanza Parameter Definitions**

Parameter	Definition
OperatorId (Required)	<p>Specify the operator ID that is set up in Voyager System Administration for this application.</p> <p>This operator ID is used to conduct OCLC Navigator transactions in the Voyager database.</p> <p>This must be a valid operator ID with the privileges to do the following:</p> <p>Cataloging Module</p> <ul style="list-style-type: none"> <li>• Add bibliographic records</li> <li>• Add holding records</li> <li>• Attach holdings to any bibliographic record</li> <li>• Add item records</li> <li>• Available location includes the one defined in the [Borrowing] stanza ItemLocationCode</li> </ul> <p>Circulation Module</p> <ul style="list-style-type: none"> <li>• Place and cancel hold and recall requests</li> <li>• Add/update item records</li> <li>• Charge, discharge, and renew items</li> <li>• Available locations include all the ones defined in the <code>intercirc-ursa.ini</code> file</li> <li>• Add/update patron records (an URSA 4.0 requirement)</li> </ul>

**Table 2-9. [General] Stanza Parameter Definitions**

Parameter	Definition
TypeOfVerificationId (Required)	Specify <code>PatronBarcode</code> as the method for identifying patrons.  This option affects how Voyager processes <code>LookUpUser</code> messages.  <b>NOTE:</b> The method selected should match the method used for patron identification in the OPAC.
CircClusterCode (Required for multi-cluster)	Use to define the one circulation cluster code to be used in a multi-cluster installation.  <b>NOTE:</b> No value needs to be specified for single-cluster or nonclustered installations.
VACS OPAC connection (Required)	Specify your database name followed by OPAC. This points to the [xxxxdb OPAC] stanza.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
VACS CIRC connection (Required)	Specify your database name followed by CIRC. This points to the [xxxxdb CIRC] stanza.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>

**[LocalSite]**

The [LocalSite] stanza contains the following parameters:

- AgencyId
- AgencyIdScheme

**NOTE:**

If your installation requires a unique server identifier for a multiple-server environment, contact Ex Libris Customer Support for assistance.

See [Table 2-2](#) for a description of these parameters.

**Table 2-10. [LocalSite] Stanza Parameter Definitions**

Parameter	Definition
AgencyId (Required)	Specify a unique identifier by which your local Voyager site is known to the OCLC Navigator server.  This corresponds to the NCIP <code>InitiationHeader.ToAgencyId.UniqueAgencyId.Value</code> data element that is provided to Voyager by the OCLC Navigator server and the <code>ResponseHeader.FromAgencyId.UniqueAgencyId.Value</code> data element that is provided to the OCLC Navigator server by Voyager.
AgencyIdScheme (Required)	Specify the URI that contains a list of agency IDs (list of libraries) for the consortium.  This corresponds to the NCIP <code>InitiationHeader.ToAgencyId.UniqueAgencyId.Scheme</code> data element that is provided to Voyager by the OCLC Navigator server and the <code>ResponseHeader.FromAgencyId.UniqueAgencyId.Scheme</code> data element that is provided to the OCLC Navigator server by Voyager.

**NOTE:**

The `.scm` file-naming convention as used in [Figure 2-1](#) indicates an NCIP scheme file.

**[URSASite]**

The `[URSASite]` stanza contains the following parameters:

- AgencyId
- AgencyIdScheme

**NOTE:**

If your installation requires a unique system identifier for a multiple-server environment, contact Ex Libris Customer Support for assistance.

See [Table 2-3](#) for a description of these parameters.

**Table 2-11. [URSA] Stanza Parameter Definitions**

Parameter	Definition
AgencyId (Required)	Specify a unique identifier for the remote site running the OCLC Navigator server.  This corresponds to the NCIP <code>ResponseHeader.ToAgencyId.UniqueAgencyId.Value</code> data element.
AgencyIdScheme (Required)	Specify the URI that contains the list of agency IDs (list of servers) for the consortium.  This corresponds to the NCIP <code>ResponseHeader.FromAgencyId.UniqueAgencyId.Scheme</code> data element.

**NOTE:**

The `.scm` file-naming convention as used in [Figure 2-1](#) indicates an NCIP scheme file.

**[Borrowing]**

Information supplied by the parameters in the `[Borrowing]` stanza is used to create temporary item records for Voyager circulation purposes when a Voyager patron borrows an item from an OCLC Navigator library.

The `[Borrowing]` stanza contains the following parameters:

- `UrsaItemTypeCode`
- `ItemLocationCode`
- `UseDefaultPickupLocation`
- `PickupLocationCode`

See [Table 2-4](#) for a description of these parameters.

**Table 2-12. [Borrowing] Stanza Parameter Definitions**

Parameter	Definition
UrsaItemTypeCode (Required)	<p>Specify the item type for the OCLC Navigator consortium items.</p> <p>This item type code may represent an existing item type or a newly created item type that is used exclusively with OCLC Navigator.</p> <p>Creating a new item type code for these items makes it easier to keep track of them.</p> <p>See <a href="#">Temporary Records</a> on <a href="#">page 3-11</a> for reasons to consider the use of a new item type.</p> <p>Voyager does not verify that this code corresponds to an item type defined in the ITEM_TYPE table.</p> <p>The <code>UrsaItemTypeCode</code> variable could be <code>book</code> or <code>foreign item</code> for example.</p>
ItemLocationCode (Required)	<p>Specify the item location of temporary bibliographic/holdings/items that represent consortium-owned items.</p> <p>This value must be identical to a value from LOCATION.location_code.</p> <p>This location code may represent an existing location or a newly created location that is used exclusively with OCLC Navigator.</p>
UseDefaultPickupLocation (Required)	<p>Use this option to specify if the To Agency ID field is to be used or the value for PickupLocationCode is to be used.</p> <p>Y=use the value specified for PickupLocation-Code</p> <p>N=use the pickup location from the To Agency ID field</p>
PickupLocationCode (Required)	<p>Specify the location at the local library to which OCLC Navigator items are sent for local patrons.</p> <p>This must be a valid LOCATION.location_code value.</p>

**[Lending]**

Information supplied by the parameters in the [Lending] stanza is used to provide alias Voyager patron information for an OCLC Navigator library/patron in order to lend an item to the OCLC Navigator library/patron. This stanza also provides location information needed by Voyager for the lending process and identifies an in-transit time frame for estimating the return time frame of items.

The [Lending] stanza contains the following parameters:

- UrsaPatronBarcode
- ChargeLocationCode
- UseDefaultPickupLocation
- PickupLocationCode
- ReturnTransitPeriod
- DefaultPatronGroupCode

See [Table 2-5](#) for a description of these parameters.

**Table 2-13. [Lending] Stanza Parameter Definitions**

Parameter	Definition
UrsaPatronBarcode (Required)	Specify the unique barcode associated with the Voyager system patron created for the purpose of lending Voyager local items to an OCLC Navigator patron.  The Voyager system patron is held responsible within the Voyager system for all requests and charges made by OCLC Navigator on behalf of patrons at other libraries. For this reason, the Voyager system patron needs to have unlimited requesting and borrowing privileges and a separate patron group should be defined for this patron.  <b>NOTE:</b> OCLC Navigator recommendations may include that you create more than one Voyager system patron. However, this is not necessary in Voyager. If you decide to create multiple Voyager system patrons, give them distinct barcodes and place only one in the <code>oclc-navigator.ini</code> file at a time.

**Table 2-13. [Lending] Stanza Parameter Definitions**

Parameter	Definition
ChargeLocationCode (Required)	Specify the location code used to identify a circulation desk for use in charging Voyager local items to an OCLC Navigator patron.
UseDefaultPickupLocation (Required)	Use this option to specify if the To Agency ID field is to be used or the value for PickupLocationCode is to be used.  Y=use the value specified for PickupLocationCode N=use the pickup location from the To Agency ID field
PickupLocationCode (Required)	Specify the location within the Voyager local library that has responsibility for handling the distribution (mailing) of Voyager items to the requesting OCLC Navigator patrons/libraries.  This location is printed on Call Slip requests.  The PickupLocationCode value must be identical to a value from LOCATION.location_code.
ReturnTransitPeriod (Required)	Specify the anticipated time (in days) that it takes an item to be returned to the Voyager local library from the OCLC Navigator consortium library.  This number is used in combination with the due date information to determine the return time frame of an item.
DefaultPatronGroupCode (Required)	Specify the group code to be used when an NCIP Create User message is encountered.  A patron group ID is required to create a patron. This code must be used to lookup the ID.

**[AllServices]**

The [AllServices] stanza defines attributes that control how the NCIP server interprets things that are left unspecified by the standard such as whether a Unique Item ID should be interpreted as a barcode or as an internal patron ID or whether internal IDs should be tagged with a prefix and checksum letters before they are sent out.

Anything in the [AllServices] stanza can be overridden for a particular service by including it in a stanza labeled with the service element name.

The [AllServices] stanza contains the following parameters:

- UserIdPrefix
- ItemIdPrefix
- BibliographicIdPrefix
- RequestIdPrefix
- UniqueUserIdType
- UniqueUserIdReturnType
- UniqueItemIdType
- UniqueItemIdReturnType

See [Table 2-14](#) for a description of these parameters.

**Table 2-14. [AllServices] Stanza Parameter Definitions**

Parameter	Definition
UserIdPrefix	Set to <code>USR</code> .
ItemIdPrefix	Set to <code>ITM</code> .
BibliographicIdPrefix	Set to <code>BIB</code> .
RequestIdPrefix	Set to <code>REQ</code> .
UniqueUserIdType	The following codes can be used: <ul style="list-style-type: none"> <li>• Barcode</li> <li>• UserId</li> <li>• InstitutionId</li> </ul>
UniqueUserIdReturnType	The following codes can be used: <ul style="list-style-type: none"> <li>• Barcode</li> <li>• UserId</li> <li>• InstitutionId</li> </ul>
UniqueItemIdType	The following codes can be used: <ul style="list-style-type: none"> <li>• Barcode</li> <li>• ItemId</li> <li>• BibliographicId</li> </ul>
UniqueItemIdReturnType	The following codes can be used: <ul style="list-style-type: none"> <li>• Barcode</li> <li>• ItemId</li> <li>• BibliographicId</li> </ul>





**[NCIP]**

The [NCIP] stanza contains the following parameters:

- VersionSupported
- DisableSchemeChecking
- ReflectRequestDiagnostic
- LogRequestTraffic

See [Table 2-6](#) for a description of these parameters.

**Table 2-15. [NCIP] Stanza Parameter Definitions**

Parameter	Definition
VersionSupported (Required)	Specify the version of Voyager InterCirc - NCIP installed on the server.  This parameter provides for the option of version checking with future releases.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
DisableSchemeChecking (Required) (Not case sensitive)	Specify Y (yes) or N (no) for this option.  The Y option is required for interaction with the current OCLC Navigator server.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
ReflectRequestDiagnostic (Optional) (Not case sensitive)	Specify Y (yes) or N (no) for this option.  When set to Y, a copy of the incoming request is sent back to the client in the form of an XML comment preceding the server response message.  This attribute can be enabled for diagnostic purposes.
LogRequestTraffic (Optional)	Specify the path of a directory in which to log a copy of every request and every response sent out such as /ml/voyager/xxxdb/tomcat/ncip/logs/log-traffic.  Specifying a path for this parameter enables this diagnostic feature.




**[xxxxdb OPAC]**

The [xxxxdb OPAC] stanza contains the following parameters:

- HostName
- PortNum
- ServerAppCode

See [Table 2-7](#) for a description of these parameters.

**Table 2-16. [xxxxdb OPAC] Stanza Parameter Definitions**

Parameter	Definition
HostName (Required)	Specify the host name.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
PortNum (Required)	Specify the port number.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
ServerAppCode (Required)	Specify the server application code.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>




**[xxxxdb CIRC]**

The [xxxxdb CIRC] stanza contains the following parameters:

- HostName
- PortNum
- ServerAppCode

See [Table 2-8](#) for a description of these parameters.

**Table 2-17. [xxxxdb CIRC] Stanza Parameter Definitions**

Parameter	Definition
HostName (Required)	Specify the host name.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
PortNum (Required)	Specify the port number.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>
ServerAppCode (Required)	Specify the server application code.   <b>IMPORTANT:</b> <i>This parameter is configured at installation. Do not change it.</i>

## Tomcat Configuration Considerations

The following Tomcat files are configured at installation:

- server.xml
- log4j.properties
- web.xml
- server-config.wsdd
- jk2.properties

For generating signed certificates (for https), the following Tomcat files are also configured at installation:

- genSelfSignedCert.sh
- localhost.keystore.jks
- server.jks



---

# Voyager Module Setup Considerations

# 3

---

## Introduction

This chapter describes setup steps and considerations for Voyager modules in a Voyager InterCirc - NCIP environment.

---

## Voyager System Administration Setup

The following setup activities need to be completed in the Voyager System Administration Module:

- Determine Circulation Policies for patrons and items for use in InterCirc-NCIP  
(After reviewing [Determine Circulation Policies](#) on [page 3-2](#), you may decide that a separate Circulation Policy is not needed.)
- Define the search indexes for use with InterCirc-NCIP
- Create a callslip queue for Voyager InterCirc-NCIP use, if necessary
- Create an Intercirc - NCIP operator ID (Security > Operator Profiles) and create an Intercirc - NCIP Circulation Profile (Security > Circulation Profiles) to identify item blocks and automatic overrides.

Refer to the `OperatorId` descriptions in [Table 2-1](#) on [page 2-6](#) and [Table 2-9](#) on [page 2-19](#) for details regarding the operator ID setup requirements and refer to the *Security* chapter in the *Voyager System*

*Administration User's Guide* for details regarding operator ID and Circulation Profile setup. For additional information regarding item blocks and automatic overrides, see chapter 4, [Item Blocks](#).

## **Determine Circulation Policies**

---

InterCirc-NCIP requires that a patron be created that is used for lending items to URSA, Relais ILL, or OCLC Navigator libraries/patrons.

- This patron should have unlimited privileges.
- Depending on your local circulation policies, it may be necessary to set up a special patron group or circulation policy group to insure that this patron is never blocked from requesting or charging items.

Refer to the [Borrowing/Lending Considerations](#) section below for information to help you determine what you may need to set up.

## **Borrowing/Lending Considerations**

---

Voyager InterCirc - NCIP provides the capability to have circulation activities (borrowing and lending) performed on items owned by libraries within a consortium mix of Voyager- and URSA, Relais ILL, or OCLC Navigator-based systems.

### **Borrowing Considerations**

For borrowing, the following needs to be enabled:

- Item type code for borrowed items  
This code matches the `UrsaItemTypeCode` value provided in the `[Borrowing]` stanza of `intercirc-ursa.ini` or `oclc-navigator.ini`.
- Item type location for temporary bibliographic, holdings, and item records  
This code matches the `ItemLocationCode` value provided in the `[Borrowing]` stanza of `intercirc-ursa.ini` or `oclc-navigator.ini`.  
This can help circulation staff identify consortium-owned (URSA, Relais ILL, or OCLC Navigator institution) items by printing routing slips containing the URSA, Relais ILL, or OCLC Navigator location at the time items are discharged.
- Pickup location code at which items requested by local (Voyager) patrons are held  
This code matches the `PickupLocationCode` value provided in the `[Borrowing]` stanza of `intercirc-ursa.ini` or `oclc-navigator.ini`.

Alternately, the patron may choose the pickup location from a list of possible choices if the library decides not to use the default pickup location specified in the [Borrowing] stanza of `intercirc-ursa.ini` or `oclc-navigator.ini`.

- Local (Voyager) patrons must have hold request privileges for the InterCirc Type. This must be done in order to allow the patron to be notified when the item is available to be picked up.

For more information about the borrowing process, see [Summary for Borrowing](#) on [page 3-9](#).

### Lending Considerations

For lending activities, the following needs to be enabled:

- Patron barcode

One patron record must be created that represents consortium (URSA, Relais ILL, or OCLC Navigator) patrons. All loaned items are checked out to this patron. The unique barcode for this patron must match the information provided in the [Lending] stanza of `intercirc-ursa.ini` or `oclc-navigator.ini`.

- Location code for circulation desk used to charge items
- Pickup location code to which requested items are to be delivered

The library may specify a default pickup location or may allow the patron to choose a pickup location from a list of choices.

- Return transit period

The expected number of days that it takes for an item to be returned from a consortium (URSA, Relais ILL, or OCLC Navigator) library to the local (Voyager) library.

For more information about the lending process, see [Summary for Lending](#) on [page 3-10](#).

### Define Search Indexes (Search - Indexes - Composite Definitions for OCLC Navigator)

---

For OCLC Navigator, you need to set up a composite index definition in Search - Indexes - Composite Definitions in the Voyager System Administration module. See [Figure 3-1](#), [Figure 3-2](#), [Figure 3-3](#), and [Figure 3-4](#) for the changes required.

**Search - Indexes - Composite Definitions**

Code	Name
ADLE	Added & Linked Entry
CODN	CODEN (030a z)
GPOL	GPO Item Number (074a z)
ISBL	ISBN (020a z) ISBL
ISSL	ISSN (022a y z)

New Indexes - Composite Definition:

Index | Definitions | Sort Order | Search Results

Code:  (4 characters required)

Name:

Z39.50 Use Attribute:

Staff Suppress

Figure 3-1. New OCLC Composite Index Definition



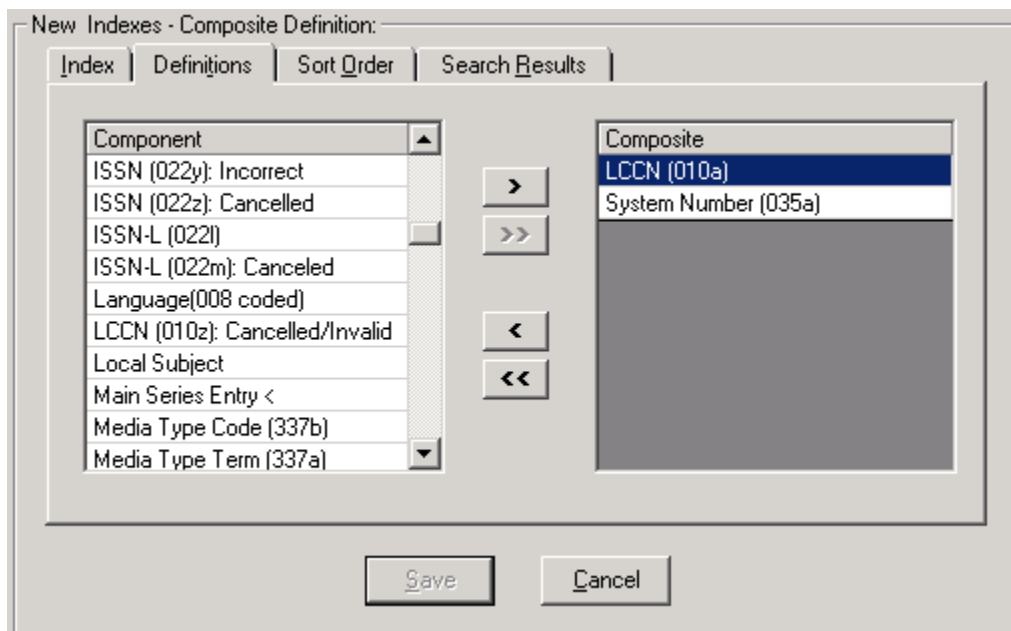


Figure 3-2. Definitions Tab Settings

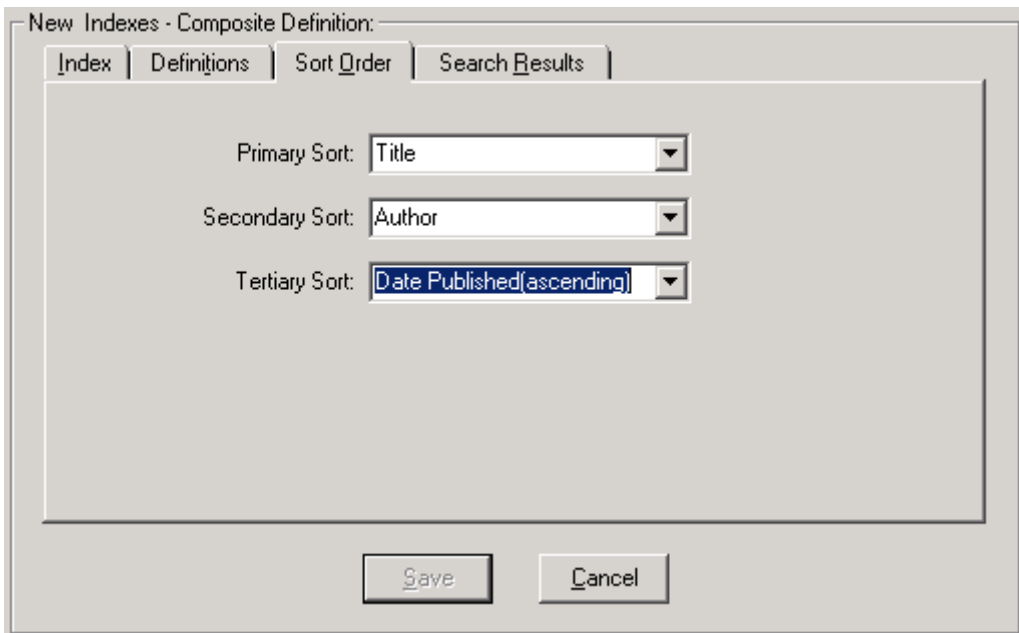


Figure 3-3. Sort Order Tab Settings

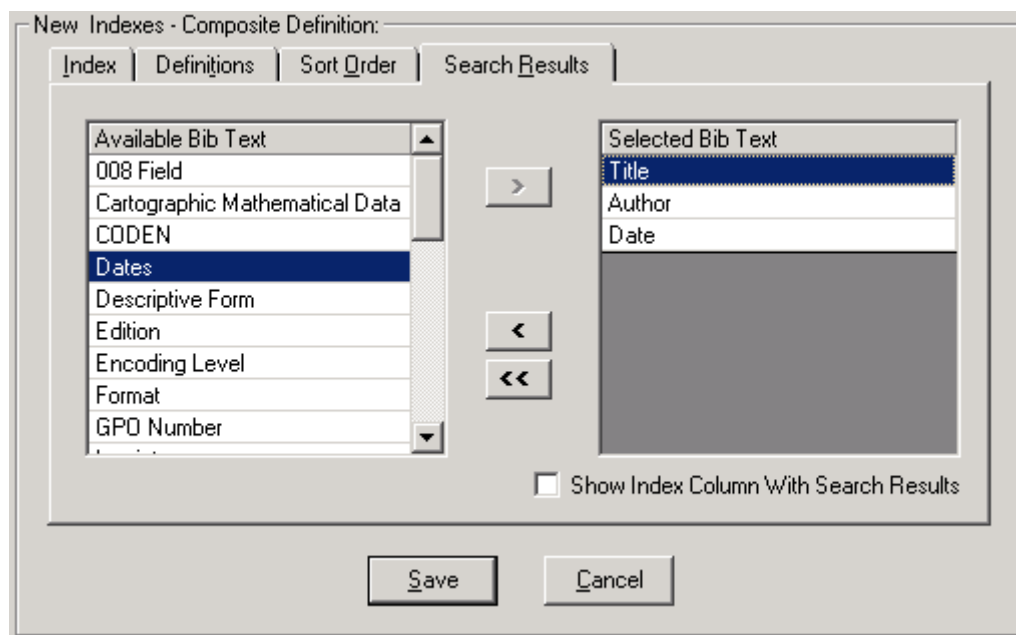


Figure 3-4. Search Results Tab Settings

## Create Call Slip Queue/Considerations

The purpose of this section is to discuss the optional need for using Voyager Call Slip in a Voyager InterCirc - NCIP environment.

The dependency on Voyager Call Slip is determined by the URSA, Relais ILL, or OCLC Navigator server setting for mediated mode or unmediated mode. See [Table 3-1](#) for a description of these two modes as they relate to the need for Voyager Call Slip.

**Table 3-1. Mediated versus Unmediated Mode Relating to Call Slip**

Mode	Call Slip Implications
Mediated	<p>This URSA, Relais ILL, or OCLC Navigator server setting indicates that the URSA, Relais ILL, or OCLC Navigator system displays a pick list at the item's holding library which can be used by the librarian to pull the item from the shelf.</p> <p>Voyager Call Slip is not needed when this URSA, Relais ILL, or OCLC Navigator server option is selected.</p>
Unmediated	<p>This URSA, Relais ILL, or OCLC Navigator server setting indicates that the URSA, Relais ILL, or OCLC Navigator system places a request in the holding library's circulation system by sending a RequestItem message.</p> <p>The holding library's circulation system is responsible for displaying the pick list so that the requested item can be retrieved from the shelf.</p> <p>With Voyager, the Call Slip module is used to implement the pick list function.</p> <p>Therefore, Voyager Call Slip is needed when this URSA, Relais ILL, or OCLC Navigator server option is selected.</p>

If you decide to make a callslip definition for InterCirc-NCIP, select one of the following Processing Codes found on the **Values** tab in **Call Slips>Queues** for each queue set up to receive loan requests from URSA, Relais ILL, or OCLC Navigator:

- Place "On Hold" shelf
- "In Transit for Hold" to destination location



**IMPORTANT:**

*Do not select the **Autocharge to requesting patron** option. If this option is selected, Voyager reports incorrectly to URSA, Relais ILL, or OCLC Navigator that the item cannot be charged to the patron at a later point in the workflow.*

## **Borrowing/Lending Process of Events**

In setting up the Voyager system and Voyager InterCirc - NCIP, use the following summaries describing the events and the environment for processing borrowing and lending requests to assist with planning your system customization.

### **Summary for Borrowing**

The following steps highlight the process for a local (Voyager) patron to borrow an item owned by another URSA, Relais ILL, or OCLC Navigator institution.

- A local patron logs on to the URSA, Relais ILL, or OCLC Navigator web-based system and enters a patron barcode.
- After receiving the patron barcode from the URSA, Relais ILL, or OCLC Navigator server via an NCIP LookupUser request, Voyager checks for blocks and authenticates the patron.
- The local patron searches for an item through the URSA, Relais ILL, or OCLC Navigator web-based application which queries bibliographic databases using the Z39.50 protocol.
- A local patron requests an item in the URSA, Relais ILL, or OCLC Navigator system.
- The URSA, Relais ILL, or OCLC Navigator server requests the item from a lending library.
- The consortium lending library ships the item to the patron's local (Voyager) library.
- The circulation clerk uses the URSA, Relais ILL, or OCLC Navigator web-based application to notify the URSA, Relais ILL, or OCLC Navigator server that the item has arrived.
- The URSA, Relais ILL, or OCLC Navigator server notifies Voyager that the item has arrived via an NCIP AcceptItem request.
- Voyager creates temporary bibliographic holdings, item records, and an item barcode for the item.
- Voyager places a hold on the newly-created, temporary item for the patron.
- When the item arrives, the patron is notified of its availability through the normal hold request process in Voyager.
- When the patron picks up the item, the circulation clerk charges the item through Voyager.
- The patron returns the item.

- The circulation desk uses the URSA, Relais ILL, or OCLC Navigator web-based application to notify the URSA, Relais ILL, or OCLC Navigator server that the transaction is complete.
- The circulation clerk discharges the item in Voyager.
- The circulation clerk deletes the temporary bibliographic, holdings, and item record in Voyager. See [Temporary Records](#) on [page 3-11](#) for more information.
- The circulation clerk ships the item back to the lending library.

### **Summary for Lending**

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The following steps highlight the process for lending a local Voyager item to another library in the consortium utilizing the URSA, Relais ILL, or OCLC Navigator server:

- The URSA, Relais ILL, or OCLC Navigator server identifies an item in the Voyager database using a Z39.50 search.
- When the URSA, Relais ILL, or OCLC Navigator server is set for unmediated mode (see [Table 3-1](#) on [page 3-8](#)), the following happens.
  - The URSA, Relais ILL, or OCLC Navigator server notifies Voyager that an item has been requested via an NCIP RequestItem request.

As part of the NCIP RequestItem process, Voyager checks the Item Blocks settings (see [Figure 4-1](#) on [page 4-2](#)) for the Intercirc operator you configured in Voyager System Administration and also specified in the `intercirc-ursa.ini` file or the `oclc-navigator.ini` file and determines if the item should be blocked or if an automatic operator override can be processed.
  - Voyager places a call slip request for the item.
  - The Call Slip clerk fills the request.

**NOTE:**

When the URSA, Relais ILL, or OCLC Navigator server is set for mediated mode, the Call Slip clerk uses the URSA, Relais ILL, or OCLC Navigator web client to view the pick list and fill the request.

- The circulation clerk at the shipping location discharges the item to clear the In-Transit status and, subsequently, ships the item and uses the URSA, Relais ILL, or OCLC Navigator web-based application to notify the URSA, Relais ILL, or OCLC Navigator server that the request has been filled.

- After receiving an NCIP CheckOutItem request from the URSA, Relais ILL, or OCLC Navigator server indicating that the item needs to be charged, Voyager charges the item to the patron barcode that is provided in the CheckOutItem request message.

**NOTE:**

The CheckOutItem message uses the standard element, DesiredDateDue, and alternatively, the element, DesiredDueDate.

- When the item is returned, the circulation clerk uses the URSA, Relais ILL, or OCLC Navigator web-based application to notify the URSA, Relais ILL, or OCLC Navigator server that the item has been returned.
- The URSA, Relais ILL, or OCLC Navigator server sends an NCIP CheckInItem request to the Voyager system to discharge the item in Voyager.

### **Additional Borrowing Option - URSA Environment**

Reciprocal Borrowing allows staff to look up a visiting patron by barcode (LookupUser) and view name, address, user type, phone, email, amount owed and blocks, if any. Subsequently, they can click a button and create a new patron record in their circulation system (CreateUser) so that the patron can check out items immediately without needing to fill out registration forms and so on. This is a service always performed by staff in a separate interface from their ILS.

**NOTE:**

The NCIP CreateUser function is used only by Reciprocal Borrowing not by URSA itself.

### **Temporary Records**

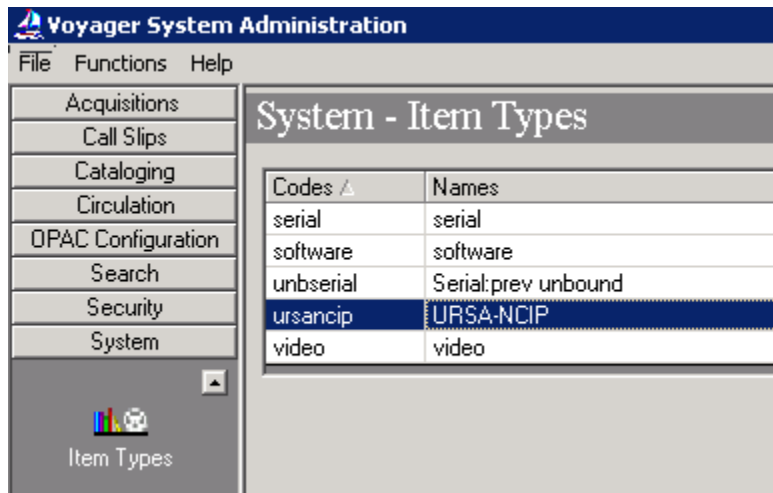
When a local (Voyager) patron borrows an item from a consortium lending library, the URSA, Relais ILL, or OCLC Navigator server sends an AcceptItem request to Voyager InterCirc - NCIP that initiates transactions to create bibliographic, holdings, and item records on the Voyager system in order for the item to be charged to the Voyager patron.

When the patron returns the item, these temporary records are no longer needed on the Voyager system. The current URSA, Relais ILL, or OCLC Navigator server implementation does not send a DeleteItem request to Voyager. As a result, there is no automatic way to delete the temporary item records.

There is no harm in leaving the item records in the database except for the fact that they are no longer needed.

If you decide to implement a process to delete these temporary records, one possible option is to define a new item type (see [Figure 3-5](#)) for the `UrsaltemTypeCode` in the `intercirc-ursa.ini` or `oclc-navigator.ini` file. Temporary item records would be associated with this unique item type. This would allow you to periodically scan your database for items of this unique item type that have an item status of Not Charged and delete those items with their associated bibliographic and holdings records.

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**Figure 3-5. System - Item Types codes**



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## Item Blocks

# 4

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### Introduction

The Voyager Intercirc - NCIP extension module provides the ability to configure and implement item blocks and automatic overrides. This capability has been implemented by enabling the Intercirc - NCIP system to utilize the configuration settings identified on the Item Blocks tab in Security - Circulation Profiles (see [Figure 4-1](#)) for the Intercirc - NCIP operator that you created for use in either the `intercirc-ursa.ini` or the `oclc-navigator.ini` configuration file (see [Voyager InterCirc - NCIP Configuration for URSA and Relais ILL](#) on [page 2-2](#) or [Voyager InterCirc - NCIP Configuration for OCLC Navigator](#) on [page 2-15](#)).

**NOTE:**

Some item blocks cannot be overridden without operator intervention and are handled as blocked.

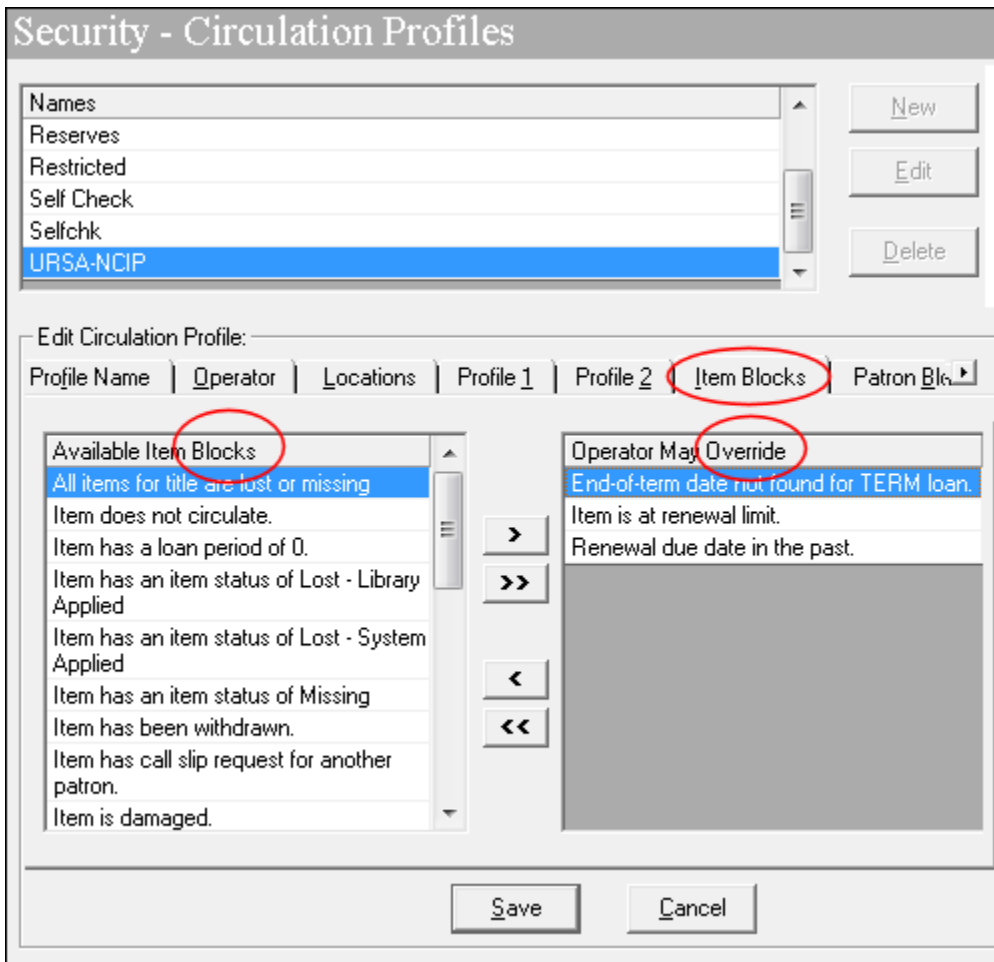


Figure 4-1. Item Blocks Tab

Edit the Item Blocks tab settings to identify the ones that can be automatically overridden by the Intercirc - NCIP operator and the ones that need to remain identified as blocked when being processed. Refer to *Circulation Profiles - Creating, Editing, and Deleting* in the *Voyager System Administration User's Guide* for more information.

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## URSA.log File Messages

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Voyager InterCirc - NCIP creates the `server.log` message log located in `/ml/voyager/xxxxdb/tomcat/ncip/logs`. The `server.log` file contains entries resulting from the Voyager/URSA, Voyager/Relais ILL, or Voyager/OCLC Navigator message exchange. See [Table 5-1](#) and [Table 5-2](#).

[Table 5-1](#) provides a list of error messages associated with the `intercirc-ursa.ini` or `oclc-navigator.ini` file that you may find in the `server.log` file. These messages display when an error in the configuration occurs.

**Table 5-1. Error Messages Associated with `intercirc-ursa.ini`**

<b>intercirc-ursa.ini Parameter</b>	<b>Error Message</b>
OperatorId	An error has been encountered in the configuration file. The <code>OperatorId</code> key is missing from the <code>[General]</code> stanza of the configuration file.
AgencyId [LocalSite]	An error has been encountered in the configuration file. The <code>AgencyId</code> key is missing from the <code>[LocalSite]</code> stanza of the configuration file.
AgencyIdScheme [LocalSite]	An error has been encountered in the configuration file. The <code>AgencyIdScheme</code> key is missing from the <code>[LocalSite]</code> stanza of the configuration file.

**Table 5-1. Error Messages Associated with intercirc-ursa.ini**

intercirc-ursa.ini Parameter	Error Message
AgencyId [UrsaSite]	An error has been encountered in the configuration file. The AgencyId key is missing from the [UrsaSite] stanza of the configuration file.
AgencyIdScheme [UrsaSite]	An error has been encountered in the configuration file. The AgencyIdScheme key is missing from the [UrsaSite] stanza of the configuration file.
UrsaltemTypeCode	An error has been encountered in the configuration file. The UrsaItemTypeCode key is missing from the [Borrowing] stanza of the configuration file.
ItemLocationCode	An error has been encountered in the configuration file. The ItemLocationCode key is missing from the [Borrowing] stanza of the configuration file.  The cataloging policy is not properly configured for the item location represented by ItemLocationCode key in the [Borrowing] stanza of the configuration file.
PickupLocationCode	An error has been encountered in the configuration file. The PickupLocationCode key is missing from the [Borrowing] stanza of the configuration file.  An error has been encountered in the configuration file. The PickupLocationCode key in the [Borrowing] stanza of the configuration file does not represent a valid location.  An error has been encountered in the configuration file. The PickupLocationCode key in the [Borrowing] stanza of the configuration file must represent a location that is also a circulation desk.
UrsaPatronBarcode	An error has been encountered in the configuration file. The UrsaPatronBarcode key is missing from the [Lending] stanza of the configuration file.  An error has been encountered in the configuration file. The UrsaPatronBarcode key in the [Lending] stanza of the configuration file must represent an active barcode.

Table 5-1. Error Messages Associated with `intercirc-ursa.ini`

intercirc-ursa.ini Parameter	Error Message
ChargeLocationCode	<p>An error has been encountered in the configuration file. The <code>ChargeLocationCode</code> key is missing from the <code>[Lending]</code> stanza of the configuration file.</p> <p>An error has been encountered in the configuration file. The <code>ChargeLocationCode</code> key in the <code>[Lending]</code> stanza of the configuration file does not represent a valid location.</p> <p>An error has been encountered in the configuration file. The <code>ChargeLocationCode</code> key in the <code>[Lending]</code> stanza of the configuration file must represent a location that is also a circulation desk.</p>
PickupLocationCode	<p>An error has been encountered in the configuration file. The <code>PickupLocationCode</code> key is missing from the <code>[Lending]</code> stanza of the configuration file.</p> <p>An error has been encountered in the configuration file. The <code>PickupLocationCode</code> key in the <code>[Lending]</code> stanza of the configuration file does not represent a valid location.</p> <p>An error has been encountered in the configuration file. The <code>PickupLocationCode</code> key in the <code>[Lending]</code> stanza of the configuration file must represent a location that is also a circulation desk.</p>
ReturnTransitPeriod	<p>An error has been encountered in the configuration file. The <code>ReturnTransitPeriod</code> key is missing from the <code>[Lending]</code> stanza of the configuration file.</p>
DefaultPatronGroupCode	<p>Attribute <code>DefaultPatronGroupCode</code> in configuration stanza <code>[Lending]</code> is missing.</p> <p>Attribute <code>DefaultPatronGroupCode</code> in configuration stanza <code>[Lending]</code> is not a valid Voyager patron group code.</p>
CircClusterCode	<p>Attribute <code>CircClusterCode</code> in configuration stanza <code>[General]</code> is missing.</p> <p>Attribute <code>CircClusterCode</code> in configuration stanza <code>[General]</code> is not a valid Voyager cluster code</p>

[Table 5-2](#) provides a list of informational messages describing the status of the exchange of requests between systems.

**Table 5-2. Informational Messages**

Message	Description
INFO [requestname] request received.	<p>Normal operation.</p> <p>Signifies request received.</p> <p>Examples of [requestname] are as follows:</p> <ul style="list-style-type: none"> <li>• CheckOutItem</li> <li>• AcceptItem</li> </ul>
ERROR [message]	<p>Error. (Voyager error information.)</p> <p>Signifies request failed and tells something about why it failed.</p> <p>Example:</p> <pre>ERROR Failed to get itemId for itemBarCode: 17602</pre> <p>This example indicates that it failed to get the item for Item Barcode 17602.</p>
ERROR [message] [location] [value]	<p>Error Recovery.</p> <p>Shows how request failure is reported back to the URSA, Relais ILL, or OCLC Navigator server.</p> <p>Example:</p> <pre>ERROR Responding with NCIP problem report: Unknown Item at NCIPMessage.CheckOutItem. UniqueItemId. ItemIdentifierValue, value=17602</pre> <p>In this example,</p> <p>[message] = Unknown Item</p> <p>[location] = NCIPMessage. CheckOutItem.UniqueItemId. ItemIdentifierValue</p> <p>[value] = 17602</p>

Table 5-2. Informational Messages

Message	Description
INFO [responsename] message sent.	<p>Normal operation.</p> <p>Signifies response sent.</p> <p>Examples of [responsename] are as follows.</p> <ul style="list-style-type: none"> <li>• CheckoutItemResponse</li> <li>• AcceptItemResponse</li> </ul>
FATAL NCIP Responder Failed.	<p>Serious error.</p> <p>Signifies that Voyager InterCirc - NCIP was not able to send a response to the URSA, Relais ILL, or OCLC Navigator server.</p> <p>Unable to send even an ERROR response to the URSA, Relais ILL, or OCLC Navigator server.</p> <p>This message is followed by additional situation-specific diagnostic information.</p>





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## NCIP Support



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### Voyager Support for NCIP - NISO Standard (Z39.83)

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See [Table A-1](#) for a description of Voyager support for the NCIP (National Circulation Interchange Protocol) - NISO Standard (Z39.83).

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Lookup User	From Agency Id	Required	You can use your own <Scheme> and <Value>. These are defined in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [URSASite] in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.
	To Agency Id	Required	The <Scheme> is the same as above.  The <Value> is VOYAGER.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	Unique User Id or Visible User Id	Required	The <code>VisibleUserId</code> and <code>UniqueUserId</code> (the patron's barcode) is the lookup.  The <code>&lt;UniqueAgencyId&gt;</code> is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[LocalSite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.
	User Element Type	Required	Voyager supports the following values: <ul style="list-style-type: none"> <li>• Name Information</li> <li>• User Address Information</li> <li>• Visible User Id</li> <li>• User Privilege</li> </ul>
Lookup User Response	Response Header	Always sent back	The <code>&lt;FromAgencyId&gt;</code> contains the <code>&lt;UniqueAgencyId&gt;</code> that is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[LocalSite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.  The <code>&lt;ToAgencyId&gt;</code> contains the <code>&lt;UniqueAgencyId&gt;</code> that is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[URSASite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.
	Problem or Unique User Id	Always sent back	The problem contains <code>Unknown-User Non-Unique User</code> .  The Unique User Id contains the encoded patron ID.  The <code>&lt;UniqueAgencyId&gt;</code> is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[LocalSite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.  <b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.
	Visible User Id	If requested	This returns the patron barcode.
	Name Information	If requested	This contains the personal name information.

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	User Address Information	If requested	This element repeats for each physical address and electronic address.
	User Privilege	If requested	<p>This element is requested by Relais. This element repeats to return library, profile, and status as in:</p> <pre> &lt;UserPrivilege&gt; AgencyUserPrivilegeType="Library" UserPrivilegeStatusType &lt; cluster code&gt; &lt;/UserPrivilege&gt;  &lt;UserPrivilege&gt; AgencyUserPrivilegeType="Profile" UserPrivilegeStatusType &lt;patron group code&gt; &lt;/UserPrivilege&gt;  &lt;UserPrivilege&gt; AgencyUserPrivilegeType="Status" UserPrivilegeStatusType &lt;"Blocked" or "OK"&gt; &lt;/UserPrivilege&gt; </pre> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini file.</p>
Accept Item	From Agency Id	Required	<p>You can use your own &lt;Scheme&gt; and &lt;Value&gt;. These are defined in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	To Agency Id	Required	<p>The &lt;Scheme&gt; is the same as above.</p> <p>The &lt;Value&gt; is VOYAGER or the pickup location code.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Unique Request Id	Required	<p>This is the URSA internal ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Requested Action Type	Required	<p>Voyager supports the following value:</p> <ul style="list-style-type: none"> <li>• Hold for pickup</li> </ul>
	Item Optional Fields	Required	<p>Voyager supports the following values:</p> <ul style="list-style-type: none"> <li>• Bibliographic description (required for Voyager)</li> <li>• Item description</li> </ul>
	Unique User Id	Optional	<p>This uses patron barcode. If it is not provided in the request, use the UrsaPatronBarcode from the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Unique Item Id	Optional	<p>This uses the item barcode.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Accept Item Response	Response Header	Always sent back	<p>The &lt;FromAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;ToAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Problem or Unique Request Id	Always sent back	<p>The problem contains User Ineligible To Check Out This Item Unknown-User Non-Unique User Cannot Accept Item.</p> <p>The Unique Request Id contains the URSA internal ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>
	Unique Item Id	Always sent back	<p>This returns the item ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
Request Item	From Agency Id	Required	<p>You can use your own &lt;Scheme&gt; and &lt;Value&gt;. These are defined in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	To Agency Id	Required	<p>The &lt;Scheme&gt; is the same as above.</p> <p>The &lt;Value&gt; is VOYAGER or the pickup location code.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in intercirc-ursa.ini or oclc-navigator.ini.</p>
	Unique User Id	Required	<p>This uses the patron barcode.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Request Scope Type	Required	<p>Voyager supports the following values:</p> <ul style="list-style-type: none"> <li>• Bibliographic item (title level)</li> <li>• Item (item level)</li> </ul>
	Request Type	Required	<p>This is not used by Voyager:</p> <ul style="list-style-type: none"> <li>• Loan</li> <li>• Copy</li> </ul>
	Unique Bibliographic Id or Bibliographic Record Id	Required	<p>Voyager supports the following values for the Unique Bibliographic Id:</p> <ul style="list-style-type: none"> <li>• ISBN</li> <li>• ISSN</li> </ul> <p>Voyager supports the following values for the Bibliographic Record Id:</p> <ul style="list-style-type: none"> <li>• LCCN</li> <li>• RLIN</li> <li>• OCLC</li> </ul>
	Need Before Date	Optional	The date in UTC format.
	Shipping Information	Optional	<p>This is not used by Voyager:</p> <ul style="list-style-type: none"> <li>• &lt;PhysicalAddress&gt;</li> <li>• &lt;ElectronicAddress&gt;</li> <li>• &lt;ShippingInstructions&gt;</li> </ul>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Request Item Response	Response Header	Always sent back	<p>The &lt;FromAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;ToAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Problem or Unique Request Id	Always sent back	<p>The problem contains User Blocked User Ineligible To Check Out This Item Duplicate Request Item Not Available By Need Before Date Temporary Processing Error Unknown Item Unknown-User Non-Unique User.</p> <p>The Unique Request Id contains the encoded voyager request ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>
	Request Scope Type	Always sent back	This returns the same value back that came in the request.
	Request Type	Always sent back	This returns the same value back that came in the request.
	Unique User Id	Always sent back	<p>This returns the patron barcode.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Date Available	Always send back	This is the current system date that is always sent back.

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	Unique Item Id	Optional	This returns the encoded item ID.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
Check Out Item	From Agency Id	Required	You can use your own <Scheme> and <Value>. These are defined in the intercirc-ursa.ini or oclc-navigator.ini file.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	To Agency Id	Required	The <Scheme> is the same as above.  The <Value> is VOYAGER.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	Unique User Id	Required	Uses patron barcode  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	Unique Item Id	Required	This uses the item barcode.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.



**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Check Out Item Response	Response Header	Always sent back	<p>The &lt;FromAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;ToAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Problem or Date Due	Always sent back	<p>The problem contains User Blocked User Ineligible To Check Out This Item Unknown Item Unknown-User Non-Unique User.</p> <p>The date is in UTC format.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>
	Unique Item Id	Always sent back	<p>This returns the same value back that came in the request.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Unique User Id	Always sent back	<p>This returns the same value back that came in the request.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Renewal count	Optional	If returned from the database.

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Check In Item	From Agency Id	Required	<p>You can use your own &lt;Scheme&gt; and &lt;Value&gt;. These are defined in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	To Agency Id	Required	<p>The &lt;Scheme&gt; is the same as above.</p> <p>The &lt;Value&gt; is VOYAGER.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	Unique Item Id	Required	<p>This uses the item barcode.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	Item Element Type	Required	<p>Voyager supports the following values:</p> <ul style="list-style-type: none"> <li>• Bibliographic description</li> <li>• Item description</li> </ul>
Check In Item Response	Response Header	Always sent back	<p>The &lt;FromAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p> <p>The &lt;ToAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	Problem or Unique Item Id	Always sent back	<p>The problem contains Unknown Item Item Not Checked Out.</p> <p>This returns the encoded item ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>
	Bibliographic Description	If requested	<p>This contains Author, BibliographicRecordId, PlaceOfPublication, PublicationDate, Publisher, Title, and Language.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Item Description	If requested	<p>This contains VisibleItemId, CopyNumber, and ItemDescriptionLevel.</p>
Lookup Item	From Agency Id	Required	<p>You can use your own &lt;Scheme&gt; and &lt;Value&gt;. These are defined in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	To Agency Id	Required	<p>The &lt;Scheme&gt; is the same as above.</p> <p>The &lt;Value&gt; is VOYAGER.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	Unique Item Id or Visible Item Id	Required	<p>This is the <code>VisibleItemId</code> and the <code>UniqueItemId</code> (the item's barcode) as the lookup.</p> <p>The <code>&lt;UniqueAgencyId&gt;</code> is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[LocalSite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	Item Element Type	Required	<p>Voyager supports the following values:</p> <ul style="list-style-type: none"> <li>• Bibliographic description</li> <li>• Item description</li> </ul>
Lookup Item Response	Response Header	Always sent back	<p>The <code>&lt;FromAgencyId&gt;</code> contains the <code>&lt;UniqueAgencyId&gt;</code> that is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[LocalSite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p> <p>The <code>&lt;ToAgencyId&gt;</code> contains the <code>&lt;UniqueAgencyId&gt;</code> that is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[URSASite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	Problem or Unique Item Id	Always sent back	<p>The problem contains <code>Unknown-Item Non-Unique Item</code>.</p> <p>The Unique Item Id contains the encoded item ID.</p> <p>The <code>&lt;UniqueAgencyId&gt;</code> is the <code>&lt;Scheme&gt;/&lt;Value&gt;</code> pair from the <code>[LocalSite]</code> stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	Bibliographic Description	If requested	This contains Author, BibliographicRecordId, PlaceOfPublication, PublicationDate, Publisher, Title, and Language.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	Item Description	If requested	This contains VisibleItemId, CopyNumber, and ItemDescriptionLevel.
Renew Item	From Agency Id	Required	You can use your own <Scheme> and <Value>. These are defined in the intercirc-ursa.ini or oclc-navigator.ini file.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	To Agency Id	Required	The <Scheme> is the same as above.  The <Value> is VOYAGER.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	Unique User Id	Required	This uses the patron barcode.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	Unique Item Id	Required	This uses the item barcode.  The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Renew Item Response	Response Header	Always sent back	<p>The &lt;FromAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;ToAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Problem or Unique Item Id	Always sent back	<p>The problem contains User Blocked User Ineligible To Check Out This Item Unknown Item Unknown-User Non-Unique User Item Not Checked Out.</p> <p>This returns the same value back that came in the request.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>
	Unique User Id	Always sent back	<p>This returns the same value back that came in the request.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Date For Return	Always sent back	The date is in UTC format.
	Renewal Count	Always sent back	

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Cancel Request Item	From Agency Id	Required	<p>You can use your own &lt;Scheme&gt; and &lt;Value&gt;. These are defined in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	To Agency Id	Required	<p>The &lt;Scheme&gt; is the same as above.</p> <p>The &lt;Value&gt; is VOYAGER.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	Unique User Id	Required	<p>This uses patron barcode.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>
	Request Type	Required	<p>The following are not used by Voyager:</p> <ul style="list-style-type: none"> <li>• Loan</li> <li>• Copy</li> </ul>
	Unique Request Id	Required	<p>Use the encoded voyager callslip request ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the <code>intercirc-ursa.ini</code> or <code>oclc-navigator.ini</code> file.</p>

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
Cancel Request Item Response	Response Header	Always sent back	<p>The &lt;FromAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;ToAgencyId&gt; contains the &lt;UniqueAgencyId&gt; that is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
	Problem or Unique Request Id	Always sent back	<p>The problem contains Unknown Item Request Already Processed.</p> <p>The Unique Request Id contains the encoded voyager callslip request ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>
	Unique User Id	Always sent back	<p>This returns the same value back that came in the request.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>
Lookup Version	From Agency Id	Required	<p>You can use your own &lt;Scheme&gt; and &lt;Value&gt;. These are defined in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p>



**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	To Agency Id	Required	The <Scheme> is the same as above. The <Value> is VOYAGER. The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
Lookup Version Response	From Agency Id	Required	Return <Scheme> and <Value> from the request To Agency Id. The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	To Agency Id	Required	Return <Scheme> and <Value> from the request From Agency Id. The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	Version Supported	Always sent back	
Create User	From Agency Id	Required	You can use your own <Scheme> and <Value>. These are defined in the intercirc-ursa.ini or oclc-navigator.ini file. The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.
	To Agency Id	Required	The <Scheme> is the same as above. The <Value> is VOYAGER. The <UniqueAgencyId> is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	Name Information	Required	The element contains: <ul style="list-style-type: none"> <li>• &lt;PersonalNameInformation&gt;</li> <li>• &lt;StructuredPersonalUserName&gt;</li> <li>• &lt;GivenName&gt;</li> <li>• &lt;Initials&gt;</li> <li>• &lt;Surname&gt;</li> <li>• &lt;Prefix&gt;</li> </ul>
	User Address Information	Required	The element contains: <ul style="list-style-type: none"> <li>• &lt;UserAddressRoleType&gt;</li> <li>• &lt;PhysicalAddress&gt;</li> <li>• &lt;StructuredAddress&gt;</li> <li>• &lt;Street&gt;</li> <li>• &lt;Locality&gt;</li> <li>• &lt;Region&gt;</li> <li>• &lt;Country&gt;</li> <li>• &lt;PostalCode&gt;</li> <li>• &lt;PhysicalAddressType&gt; (not used by Voyager)</li> </ul>
	Visible User Id	Optional	Send the patron barcode.
Create User Response	Response Header	Always sent back	The <FromAgencyId> contains the <UniqueAgencyId> that is the <Scheme>/<Value> pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.  The <ToAgencyId> contains the <UniqueAgencyId> that is the <Scheme>/<Value> pair from the [URSASite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.

**Table A-1. Voyager NCIP Support**

Message	Supported Data Elements	Conditions	Comments
	Problem or Unique User Id	Always sent back	<p>The problem contains Temporary Processing Failure.</p> <p>The Unique User Id contains the patron ID.</p> <p>The &lt;UniqueAgencyId&gt; is the &lt;Scheme&gt;/&lt;Value&gt; pair from the [LocalSite] stanza in the intercirc-ursa.ini or oclc-navigator.ini file.</p> <p><b>NOTE:</b> If a problem is sent, the rest of the elements are not sent back.</p>



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