



## Welcome to SFX Web Training Session 3

Valli Hoski Implementation Librarian

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## Objectives

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- Recognize the two different versions of OpenURL
- Define the following elements of an OpenURL
  - Source ID
  - Private ID
  - Genre
- Identify basic troubleshooting of OpenURL problems
- Describe how SFX uses metadata to create links.
- Recognize how SFX uses information stored in the KnowledgeBase to create links.

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## Agenda

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- How SFX Works
- Understanding OpenURL
- How SFX Creates a Link

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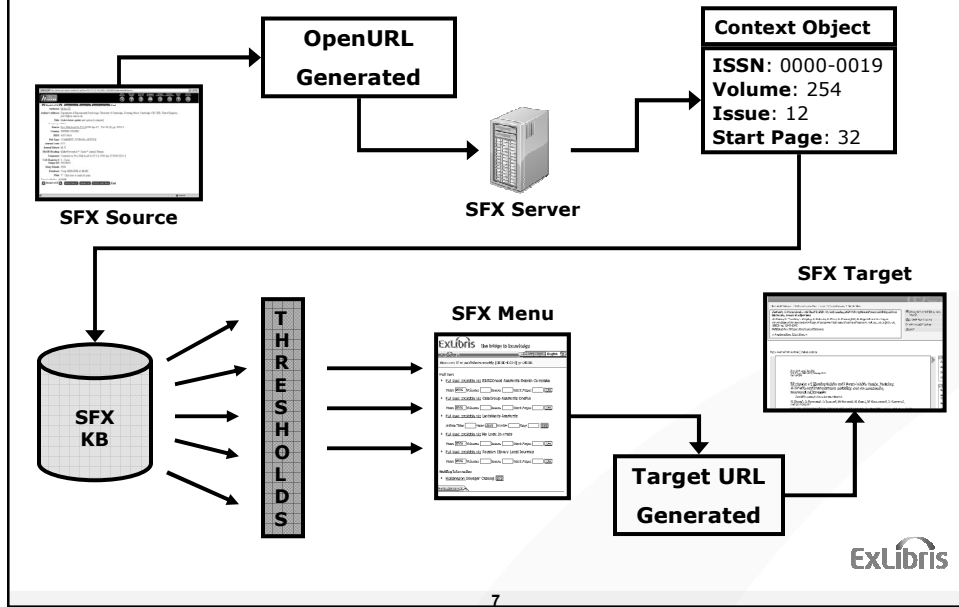
## How SFX Works

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## SFX Request: User Experience

The screenshot displays the ExLibris SFX interface. On the left, a sidebar shows search results and metadata for the article 'Color vision: Opsins and options' by J. D. Mollon. The main content area shows the article title, author information, and a 'Commentary' section. The commentary includes a paragraph of text and two line graphs showing 'Relative Sensitivity' versus wavelength (nm). The top graph shows curves for S (Short wavelength) and L (Long wavelength) cones. The bottom graph shows curves for M (Medium wavelength) and L (Long wavelength) cones. On the right, there are various service options like 'Email this article to a colleague' and 'Request Copyright Permission'.

## SFX Request: Behind the Scenes



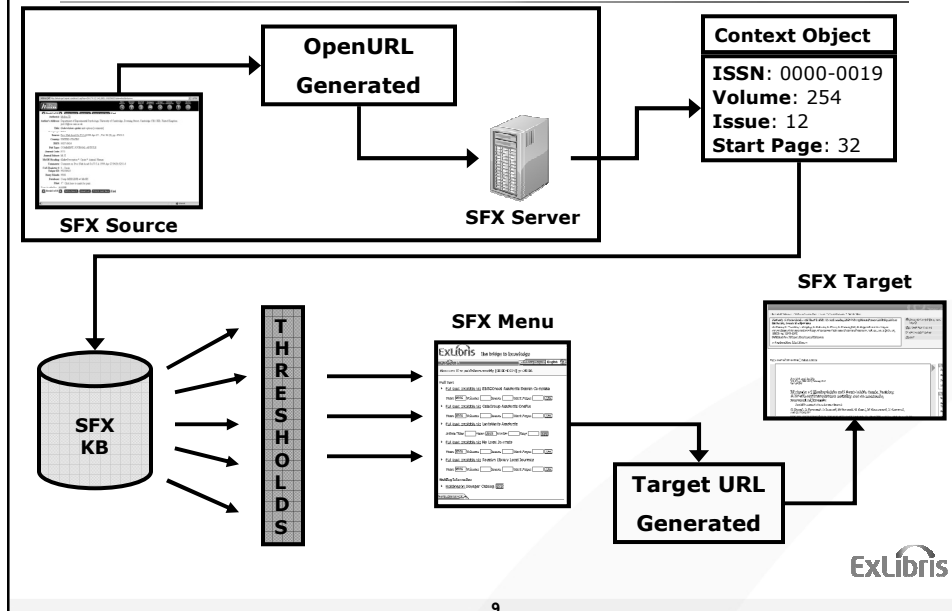
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## Understanding OpenURL

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## SFX Request: Behind the Scenes



## What is OpenURL?

- OpenURL Framework Application is a networked service environment, in which packages of information are transported over a network. These packages have a description of a referenced resource at their core, and they are transported with the intent of obtaining context-sensitive services pertaining to the referenced resource.

--NISO Standard z39.88

[http://www.niso.org/standards/standard\\_detail.cfm?std\\_id=783](http://www.niso.org/standards/standard_detail.cfm?std_id=783)

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## In other words...

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- An OpenURL...
  - transports metadata
  - is about a particular resource
  - provides services for the resource that is referenced

## Two Versions of OpenURL

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- OpenURL 0.1

[http://demo.exlibrisgroup.com/demo?issn=0003-0554&date=2007&volume=101&issue=01&spage=1&atitle=Between Decision and Deliberation: Political Paradox in Democratic Theory&aurlast=Honig](http://demo.exlibrisgroup.com/demo?issn=0003-0554&date=2007&volume=101&issue=01&spage=1&atitle=Between+Decision+and+Deliberation:+Political+Paradox+in+Democratic+Theory&aurlast=Honig)

- OpenURL 1.0

[http://demo.exlibrisgroup.com/demo?ctx\\_enc=info:ofi/enc:UTF-8&ctx\\_id=10\\_1&ctx\\_tim=2007-11-28T15:50:7CST&ctx\\_ver=Z39.88-2004&res\\_id=http://demo.exlibrisgroup.com/demo&rft.atitle=Between Decision and Deliberation: Political Paradox in Democratic Theory&rft.aufirst=Bonnie&rft.aurlast=Honig&rft.epage=17&rft.genre=article&rft.issn=0003-0554&rft.issue=1&rft.jtitle=American Political Science Review&rft.spage=1&rft.volume=101&rft\\_val\\_fmt=info:ofi/fmt:kev:mtx:journal&svc\\_val\\_fmt=info:ofi/fmt:kev:mtx:sch\\_svc&url\\_ctx\\_fmt=info:ofi/fmt:kev:mtx:ctx&url\\_ver=Z39.88-2004](http://demo.exlibrisgroup.com/demo?ctx_enc=info:ofi/enc:UTF-8&ctx_id=10_1&ctx_tim=2007-11-28T15:50:7CST&ctx_ver=Z39.88-2004&res_id=http://demo.exlibrisgroup.com/demo&rft.atitle=Between+Decision+and+Deliberation:+Political+Paradox+in+Democratic+Theory&rft.aufirst=Bonnie&rft.aurlast=Honig&rft.epage=17&rft.genre=article&rft.issn=0003-0554&rft.issue=1&rft.jtitle=American+Political+Science+Review&rft.spage=1&rft.volume=101&rft_val_fmt=info:ofi/fmt:kev:mtx:journal&svc_val_fmt=info:ofi/fmt:kev:mtx:sch_svc&url_ctx_fmt=info:ofi/fmt:kev:mtx:ctx&url_ver=Z39.88-2004)

## Elements of an OpenURL

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`http://demo.exlibrisgroup.com:9003/demo?genre=article&issn=00000019&title=Publishers+Weekly&volume=253&issue=49&date=20061211&atitle=Baldacci+Looks+to+Expand+Donation+Program.&aulast=Valdes&spage=12&sid=EBSCO:afh&pid=<ui>23474262</ui><db>Academic Search Elite</db>`

- Source ID
  - Commonly referred to as the sid
  - Vendor:Database format
  - Helps link resolvers interpret the metadata in an OpenURL



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## Elements of an OpenURL

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`http://demo.exlibrisgroup.com:9003/demo?genre=article&issn=00000019&title=Publishers+Weekly&volume=253&issue=49&date=20061211&atitle=Baldacci+Looks+to+Expand+Donation+Program.&aulast=Valdes&spage=12&sid=EBSCO:afh&pid=<ui>23474262</ui><db>Academic Search Elite</db>`

- Private ID
  - Commonly referred to as the pid
  - Contains information that has no placeholder in the OpenURL
  - Tags are used to identify the information
  - Link Resolvers interpret the tags based on the sid



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## Elements of an OpenURL

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`http://demo.exlibrisgroup.com:9003/demo?genre=article&issn=00000019&title=Publishers+Weekly&volume=253&issue=49&date=20061211&atitle=Baldacci+Looks+to+Expand+Donation+Program.&aulast=Valdes&spage=12&sid=EBSCO:afh&pid=<ui>23474262</ui><db>Academic Search Elite</db>`

- Genre
  - Indicates to a link resolver what type of information to expect in the OpenURL
  - Example
    - When the genre = article SFX expects ISSN, Article Title, Journal Title, Volume, Issue, etc.
    - When the genre = book SFX expects ISBN, Book Title, Author, etc.



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## Elements of an OpenURL

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`http://demo.exlibrisgroup.com:9003/demo?genre=article&issn=00000019&title=Publishers+Weekly&volume=253&issue=49&date=20061211&atitle=Baldacci+Looks+to+Expand+Donation+Program.&aulast=Valdes&spage=12&sid=EBSCO:afh&pid=<ui>23474262</ui><db>Academic Search Elite</db>`

- Remaining information is metadata about the resource being referenced.
  - Article Title
  - Journal Title
  - Author Name



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## Troubleshooting Tips

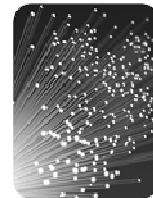
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- Is the metadata correct?
  - is the date correct?
  - do the volume, issue, page numbers make sense?
- Is the genre a valid genre?
  - does the metadata match the genre?
  - does the genre look familiar?

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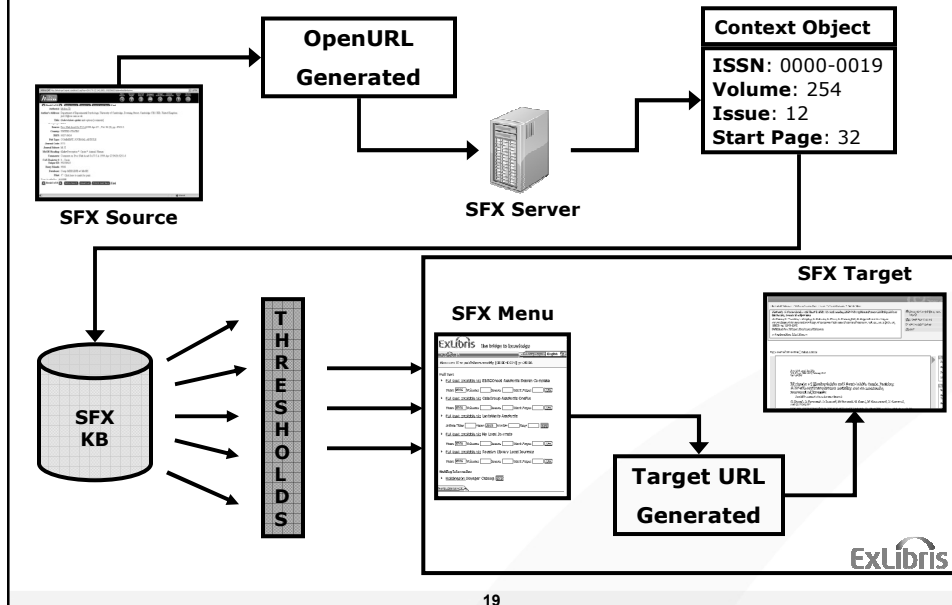
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## How SFX Creates a Link

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## SFX Request: Behind the Scenes



## Creating a Link: Target Parser Programs

- Programs used by SFX to link to Targets; which one to use is indicated in Target Service "parser" field
- Uses information from:
  - Original OpenURL sent by Source
  - SFX metadata augmentation
  - Data stored in the SFX KnowledgeBase.

## Creating a Link: Information in the KB

Information that helps create links is stored in the SFX KB

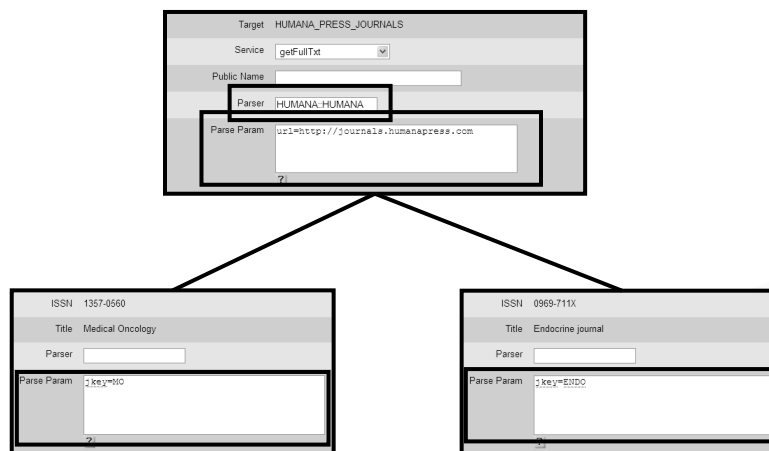
- Object Portfolio information is commonly stored in the parse param field for the object portfolio's record.
- Target Service information is also stored in the parse param field for the target service's record

Internal ID	111077640199005	Submit
Target	HUMANA_PRESS_JOURNALS	
Target Service	getFullTxt (Parser=HUMANA:HUMANA)	
Object	954925583201	
ISSN	0969-711X	
Title	Endocrine journal	
Parser	<input type="text"/>	
Parse Param	key=ENDO	
Authentication	<input type="text"/>	
Note	<input type="text"/>	

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## Creating a Link: Putting it all together



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## Creating a Link: Putting it all together

```
# Version: $Id: HUMANA.pm,v 1.1 2004/09/10 19:08:51 am_3 Exp $
package Parsers::TargetParser::HUMANA;
use base qw(Parsers::TargetParser);

sub
  getFullTxt {
    my ($this,$ctx_obj) = @_;
    my $url      = $ctx_obj->parse_param('url');
    my $jkey     = $ctx_obj->parse_param('jkey');
    my $issn     = $ctx_obj->{'ISSN'};
    my $volume   = $ctx_obj->{'volume'};
    my $issue    = $ctx_obj->{'issue'};
    my $spage    = $ctx_obj->{'startPage'};

    my $host = $url;

    if (length $issn) {
      $url = "$host/JournalTOC.pasp?issn=$issn";
    }

    if (length $issn && $jkey && $volume && $issue) {
      $url = "$host/IssueTOC.pasp?issn=$issn&icode=$jkey:$volume:$issue";
    }

    if (length $issn && $jkey && $volume && $issue && $spage) {
      $url = "$host/ArticleDetail.pasp?issn=$issn&icode=$jkey:$volume:$issue:$spage";
    }

    return $url;
  }
1;
```

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## Creating a Link: Putting it all together

<http://journals.humanapress.com/ArticleDetail.pasp?issn=13570560&icode=MO:23:4:431>

From the  
**Object Portfolio**  
Record's Parse  
Param Field

From the  
**Target Service**  
Record's Parse  
Param Field

From the **OpenURL**

*User sees:*

Hjertner, Øyvind. "Bone disease in multiple myeloma." *Medical Oncology* 23.4 (2006):431-441.

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## Practice

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### **Exercise 3.1: Deconstructing an OpenURL**

Using the knowledge you just learned and the steps outlined in the SFX Exercises booklet, troubleshoot the problem OpenURLs provided in the Exercise.



### **Exercise 3.2: Creating a Link**

Using the knowledge you just learned and the steps outlined in the SFX Exercises booklet, to create a link using the data provided in the Exercise.

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[www.exlibrisgroup.com/sfx.htm](http://www.exlibrisgroup.com/sfx.htm)

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