

## Introduction from the manual:

### Outputting Records in XML Format

If your organization has acquired XML Server (Product Code 201XML), you can output XML metadata from your Innovative system. Metadata are structured elements that describe an information resource or, more generally, any definable entity. For example, the bibliographic record data can be considered metadata. XML Server outputs Web OPAC content as XML. The XML output includes both:

- record data formatted according to the [record DTD](#)

By default, the XML Server retrieves bibliographic records. It is possible to retrieve other types of records if they are linked to bibliographic records.

- Web OPAC page data formatted according to the [heading DTD](#)

The process of outputting records in XML format is as follows:

1. You [access the XML Server](#) through either a:
  - Web browser
  - script you have written
2. Specify the parameters of your search for metadata by appending to the XML Server's URL either a:
  - [path](#)
  - [query string](#)

[XML elements](#) can be used in a query string.

  - combination of a path and query string
3. An [index browse display](#) or a [record browse display](#) Web OPAC page containing records matching the search criteria is retrieved from the Innovative system and provided to the requesting browser or script in XML format.

To retrieve and interpret XML from the XML Server, you will need basic knowledge of Web authoring and XML.

**From:** [rob caSSon](#)  
**To:** [Discussion forum for use of the XML Server;](#)  
**CC:**  
**Subject:** [xmlserver] xmlopac wiki  
**Date:** Friday, March 31, 2006 11:00:41 AM  
**Attachments:**

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couple of us code4libbers have set up a wiki for tips/tricks/etc:

[http://wiki.lib.muohio.edu/xmlopac/index.php/Main\\_Page](http://wiki.lib.muohio.edu/xmlopac/index.php/Main_Page)

feel free to hop on and help out....

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You are currently subscribed to xmlserver as: jason.stirnaman@sos.mo.gov.  
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**From:** [Stirnaman, Jason](#)  
**To:** [Discussion forum for use of the XML Server;](#)  
**CC:**  
**Subject:** RE: [xmlserver] varfldprimary error  
**Date:** Wednesday, February 08, 2006 12:19:06 PM  
**Attachments:**

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David,

I actually prefer XSLT as well, but I'm early on in my .Net exploration and thought it would be a good exercise to see what I could pull off.

I'd love for you to add us to your test. Just FYI, the alias we typically use for our webpac is arthur.missouri.edu, but I guess <http://arthur.lso.umsystem.edu> is the real name. It's a server shared by 6 institutions ("Arthur cluster").

Jason

-----Original Message-----

From: David Walker [<mailto:dwalker@csusm.edu>]

Sent: Wednesday, February 08, 2006 12:04 PM

To: Discussion forum for use of the XML Server

Subject: RE: [xmlserver] varfldprimary error

Hi Jason,

It's good to know that even the .Net compiler considers the III record schema to be confusing. :-)

Obviously, I think the approach you're taking is a good one. Do you mind if I add your XML Server to the Shrew test page?

<http://library.csusm.edu/catalog/sru/xserver/test.htm>

I'm hoping to find some time to complete my work on the XML server, and release the XSLT style sheets and some class libraries as open source. I'm creating versions in .Net and PHP, which seems perfect for this

crowd.

Rather than bind to a data grid, I'm binding to an XML control and using XSLT (again) to create a display in HTML. That seems easier to me, but I like XSLT.

--Dave

-----Original Message-----

From: Stirnaman, Jason [<mailto:jason.stirnaman@sos.mo.gov>]

Sent: Wednesday, February 08, 2006 6:52 AM

To: Discussion forum for use of the XML Server

Subject: RE: [xmlserver] varfldprimary error

To answer my own question - I just stumbled across David Walker's blog post at <http://libdev.plymouth.edu/post/12#more-12>. Good to know I'm not alone. Thanks, David!

In .NET, I was able to simply apply the XSLT transform to the XML Server output without any problems and that's probably the bulk of what I'll be doing. However, using the XML data binding features in .NET seems to be impossible with the III DTD. My next attempt will be to first apply one of the transforms as David suggests and then hook up the resultant XML with the .NET datagrid capability.

Suggestions?

Jason

-----Original Message-----

From: Stirnaman, Jason

Sent: Tuesday, February 07, 2006 11:10 AM

To: Discussion forum for use of the XML Server

Subject: [xmlserver] varfldprimary error

Hi. Has anyone experienced a problem with this while validating against the DTD:

```
<!ELEMENT VARFLDPRIMARYALTERNATEPAIR ((VARFLDPRIMARY?) |  
(VARFLDPRIMARY,  
VARFLDALTERNATE)) >  
<!ELEMENT VARFLDPRIMARY (VARFLD) >
```

I am just beginning to work with XML Server using .NET, but when the parser attempts to validate the XML Server results, it returns this:

"The content model must be deterministic. Multiple definition of element 'VARFLDPRIMARY' causes the content model to become ambiguous. An error occurred at <http://arthur.iso.umssystem.edu/dtd/iiirecord.dtd>, (17, 92)."

Thanks,

Jason

Jason Stirnaman, Reference Librarian  
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**From:** [David Walker](#)  
**To:** [Discussion forum for use of the XML Server;](#)  
**CC:**  
**Subject:** RE: [xmlserver] New XML Server FAQ section on CSDirect  
**Date:** Friday, February 03, 2006 1:04:17 PM  
**Attachments:**

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Hi Richard,

Again, thanks so much to you and Charles for this great work with the XSLT documents. I think this will prove to be very useful to us here. As promised, I have some comments / suggestions on the new documents.

(1) The MODS and MARC-XML files transform the III output to a basic <collection> wrapper around the records in their given schema. Usually a <collection> tag assumes that the records are being 'dumped' out of the catalog rather than queried real-time.

The XML Server sends back a lot of useful information about the search itself: the number of hits, the position of each record in the results, and so on, which are lost in these transformations.

What I would suggest is that, instead of a <collection> wrapper for the records, an SRU/SRW response wrapper would be more appropriate. Since SRU/SRW is a library standard, and the XML Server response can be easily mapped to its elements, I think it meets the broad goals of these XSLT files.

Here is a modified version of the MODS XSLT file with an SRU/SRW wrapper I put together this morning:

[http://library.csusm.edu/catalog/sru/xserver/xsl/iii\\_to\\_mods.xsl](http://library.csusm.edu/catalog/sru/xserver/xsl/iii_to_mods.xsl)

And here is what that looks like, if you select 'MODS' from the test page and perform a search:

<http://library.csusm.edu/catalog/sru/xserver/test.htm>

(2) The Dublin Core file has no wrapper element at all, so a request for multiple records results in multiple root-level elements, for which any XSLT processor will throw an error.

(3) The MODS file includes some Xlink prefixes, but does not contain a namespace declaration for Xlink. The above modified version also includes that correction.

More later!

--Dave

=====  
David Walker  
Web Development Librarian  
Library  
Cal State San Marcos  
760-750-4379  
=====

-----Original Message-----

From: Richard Paladino [<mailto:paladino@iii.com>]

Sent: Thursday, December 15, 2005 10:31 AM

To: Discussion forum for use of the XML Server

Subject: [xmlserver] New XML Server FAQ section on CSDirect

XML Server Users,

I am pleased to announce the new FAQ section for the XML Server on CSDirect

at <http://csdirect.iii.com/faq/xmlserver.shtml>. Please check the FAQs

from

time to time as we will be updating them with helpful information and tips

for XML Server use.

In addition, we have posted on CSDirect several XSLT transforms intended

for use with the XML Server. These transforms may be applied to the native output of the XML Server to generate output in MARCXML, MARCXML+, MODS, or Dublin Core. We hope that by making these transforms available we will allow libraries to begin using the XML Server more effectively right away, without the need to become familiar with our native output format.

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