

Solver can now work with ILLiad 2021-10-11

Solver is the CyberTools link resolver. ILLiad is an Interlibrary Loan (ILL) web-based service offered by OCLC, created and supported by Atlas-Systems. ILLiad includes article document delivery.

When an article cannot be accessed via Solver, then Solver normally routes the article to Solver's Request Page, entering the article into Solver's document delivery system. Some libraries use commercial Interlibrary Loan (ILL) systems such as ILLiad or have access to a secondary link resolver, such as a link resolver provided by a parent organization or by a state library association. As an option, Solver can also use these systems. Now Solver can append an article's metadata as the query string to this URL Base instead of placing the user into the Solver Request Page. The query string's format can be OpenURL v0.1 or 1.0. That URL is realized by the browser.

For example, if the library uses ILLiad, for a dedicated ILLiad server solution then the base URL would have the format:

```
https://your.ILLiad.server.name/illiad/illiad.dll?Action=10&Form=30&
```

For a shared ILLiad server then the base URL would have this format:

```
https://your.ILLiad.server.name/illiad/SiteCode/illiad.dll?Action=10&Form=30&
```

Solver appends an OpenURL query string to the base. The query string is URL encoded. When Solver knows the article's PMID then Solver formats the outbound OpenURL query string according to the CyberTools field ILL or Secondary Link Resolver OpenURL Version value, i.e., v0.1 or v1.0. When Solver does not know the PMID, thus the article request was not from PubMed or UpToDate (for example was from EBSCO, Elsevier, Ovid, etc.), then Solver attaches the received inbound query string to the ILL or Secondary Link Resolver URL Base.

For example, if a search at PubMed yields this citation:

Jha AK, Orav EJ, et al. Public reporting of discharge planning and rates of readmissions. The New England journal of medicine. 2009.12.31; 361(27):2637-2645. doi:10.1056/NEJMsa0904859 1533-4406 PMID: 20042755

If the library does not have access to the article and has this faux ILLiad base URL:

```
https://MyLibraryId.atlas-sys.com/illiad/illiad.dll?Action=10&Form=30&
```

then Solver sends this encoded URL to the browser:

```
https://MyLibraryId.atlas-sys.com/illiad/main/illiad.dll?Action=10&Form=30&url_ver=Z39.88-2004&genre=article&atitle=Public+reporting+of+discharge+planning+and+rates+of+readmissions.&aulast=Jha&aufirst=AK&aulast=Orav&aufirst=EJ&aulast=Epstein&aufirst=AM&date=2009-12-31&doi=10.1056%2FNEJMsa0904859&iissn=1533-4406&iissn=00284793&issue=27&pages=2637-45&pmid=20042755&sid=ENTREZ%3APubMed&title=The+New+England+journal+of+medicine&volume=361
```

The same URL decodes to:

```
https://MyLibraryId.atlas-sys.com  
/illiad/main/illiad.dll?Action=10&Form=30&url_ver=Z39.88-2004&genre  
=article&atitle=Public+reporting+of+discharge+planning+and+rates+of+  
readmissions.&aulast=Jha&aufirst=AK&aulast=Orav&aufirst=EJ&aulast=Epstein  
&aufirst=AM&date=2009-12-31&doi=10.1056/NEJMsa0904859&issn=1533-4406  
&issn=00284793&issue=27&pages=2637-45&pmid=20042755&sid=ENTREZ:PubMed  
&title=The+New+England+journal+of+medicine&volume=361
```

If the article does not have a PMID then Solver attaches the article's query string metadata as received from the citation's database system to the ILL or Secondary Link Resolver URL Base and sends it to the browser. For example, given this citation at Ovid:

Thomas AS, Lin P. Multimodal imaging in infectious and noninfectious intermediate, posterior and panuveitis. Current opinion in ophthalmology. 2021 May 01;32(3):169-182.
doi:10.1097/ICU.0000000000000762 1531-7021 PMID:33710009 lang: eng

Ovid sends to Solver these (decoded) data:

```
genre=article&aulast=Thomas&issn=1040-8738&title=Current+Opinion+in  
+Ophthalmology&atitle=Multimodal+imaging+in+infectious+and+noninfectious  
+intermediate,+posterior+and+panuveitis.&volume=32&issue=3&spage=169  
&epage=182&date=2021&doi=10.1097/ICU.0000000000000762&pmid=  
&sid=OVID:ovftdb
```

If the article is not available via Solver, then Solver sends this encoded URL to the browser:

```
https://MyLibraryId.atlas-sys.com/illiad/illiad.dll?Action=10&Form=30  
&genre=article&aulast=Thomas&issn=1040-8738&title=Current+Opinion+in  
+Ophthalmology&atitle=Multimodal+imaging+in+infectious+and+noninfectious  
+intermediate%2C+posterior+and+panuveitis.&volume=32&issue=3&spage=169  
&epage=182&date=2021&doi=10.1097%2FICU.0000000000000762&pmid=&sid=OVID  
%3Aovftdb
```

Solver's inbound query string's metadata are identical to the outbound query string's metadata.

To implement use Staff Functions->Solver->Link Resolver Properties and Words->ILL or Secondary Link Resolver OpenURL Base.