DI-fusion – Download & API

Document history

Date	Description
04/2014	Original document
03/2023	Updated: xml-brief-ext, o option on markup REMARK: needs complete revisit !!

Contents

Exports

Publication

todo

Scholar

Export lists of publications for a given scholar. Export options include type of reference, type of file, specification of grouping, markup options, etc. A scholar must be identified through the institution to which s/he belongs and an ULB matricule or DAI[1].

GET request
base url: difusion-svc.ulb.ac.be/scholar?

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parameter	description	possible values[2]	mandatory/optional	default value
scholarID	unique identifier of a scholar. Can be a DAI or matricule	*DAI (TODO)* *matricule*	M	
scholarInst	unique identifier for an institution which is part of DIfusion	ULB UMons (*obsolete*)	M	
query	any valid SOLR[3] query. The query must be SOLR-encoded (e.g. ':' must be escaped with a '\'). This query is combined with a selection on DAI of the scholar		O[4]	
reftype	format of the bibliographic references in the resulting publication list	apa bibtex ris csv xml-brief xml-brief-ext xml-full	O	xml-brief
filetype	indicates the file type of the resulting file	pdf rtf bibtex csv ris xml	O	see lists
groupBy	indicates how the publications are to be grouped. A grouping on year is implicit within any indicated group order (except for 'year')	genrecvulb genredifusion genrefnrs1 genrefnrs2 genrefnrs3 year	O	genrecvulb see lists
roles	roles of the scholar that should be considered	A combination of a,e,p,m,d	O	aepmd see lists
markup	indicates which markup should be added to the resulting file	A combination of a,b,h,l,o,c,s,t	O	see lists
language	language used in resulting file (header, footer, grouping headers, …)	fr en	O	fr

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Examples

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1. List of all publications of an ULB scholar with a given matricule – output in xml-brief – difusion grouping – no headings

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1 (*TODO*) DAI stands for "Digital Author Identifier". The DAI for a scholar of ULB is defined as: http://difusion.ulb.ac.be/dai/{matricule}

2 All values are case insensitive

3 SOLR search engine: https://lucene.apache.org/solr/

http://difusion-svc.ulb.ac.be/scholar?scholarID={matricule}&scholarInst=ULB&groupBy=genredifusion

2. List of all representative publications of an ULB scholar with a given matricule – output in xml-brief – difusion grouping – no headings

https://difusion-svc.ulb.ac.be/scholar?scholarID=19262&scholarInst=ULB&groupBy=genredifusion&reftype=xml-brief&filetype=xml&roles=apcmd&language=fr&query=-pubdateStr:[0000%20TO%201900-12-31]%20AND%20-pubdateStr:[2043%20TO%209999]%20AND%20(pubstatus:info\:eu-repo/semantics/published%20OR%20pubstatus:info\:eu-repo/semantics/nonPublished%20OR%20pubstatus:info\:eu-repo/semantics/inPress%20OR%20pubstatus:info\:eu-repo/semantics/submittedForPublication)

Group

Export lists of publications for a given group of scholars. Export options include type of reference, type of file, specification of grouping, markup options, etc. A group can be defined either through a valid group ID, or through a list of scholar IDs.

GET request
base url: difusion-svc.ulb.ac.be/group?

parameter	description	possible values[5]	mandatory/optional	default value
groupID	unique identifier of a group. Must be a valid group ID.	*Group ID*	M[6]	
scholarIDs (*obsolete*)	colon separated list of scholar IDs (matricule or DAI)	*scholarID1, scholarID2, … , scholarIDn*	M[7]	
query	any valid SOLR query. The query must be SOLR-encoded (eg ':' must be escaped with a '\')		O	
reftype	format of the bibliographic references in the resulting publication list	apa bibtex ris csv xml-brief xml-brief-ext xml-full	O	xml-brief
filetype	file type of the resulting file	pdf rtf bibtex csv ris xml	O	see lists
groupBy	indicates how the publications are to be grouped. A grouping on year is implicit within any indicated group order (except for 'year')	genrecvulb genredifusion year	O	genrecvulb see lists
roles	roles of the scholars (of the group) that should be considered	A combination of a,e,p,m,d	O	aepmd see lists
markup	indicates which markup should be added to the resulting file	A combination of a,h,l,c,s,t	O	see lists
language	language used in resulting file (header, footer, headers, …)	fr en	O	fr

---

5 All values are case insensitive

6 groupID ans scholarIDs are mutually exclusive parameters

7 groupID ans scholarIDs are mutually exclusive parameters

XML Response formats

xml-brief

Every publication is described through a <doc> XML element with the following XML subelements and attributes.

xml element	optional attribute	description
`doc`	`seqno="…"`	Root element for a publication. An additional attribute "seqno" is added on the doc XML element, in case sequence numbering is requested (markup={s,t})
`arr name="genre"`		Genre as known in DI-pot
`arr name="genrecvulb"`		Genre as known in the CV of ULB
`arr name="author"`		All authors of the publication
`arr name="title"`		The title of the publication
`arr name="apa"`		The APA reference for the publication
`arr name="startpage"`		URL to the detail page of the publication in DI-fusion
`arr name="abstract"`		An abstract for the publication (only included if abstract is requested: markup=a)
`arr name="ftlink_closedaccess"`		URLs to full text that are available in closed access (only included if inks to full text is requested in the publication list: markup=l)
`arr name="ftlink_restrictedaccess"`		URLs to full text that are available in restricted access (intranet, embargo) (only included if inks to full text is requested in the publication list: markup=l)
`arr name="ftlink_unrestrictedaccess"`		URLs to full text that are available in open access (only included if inks to full text is requested in the publication list: markup=l)

The following additional XML elements are used in case a grouping is requested in the resulting publication list.

xml element	optional attribute	description
`grouplevel1 title="…"`	`count="…"`	Highest level of grouping. The title attribute contains the label for this grouping. Can be French or English depending on the language parameter on the GET request. An additional attribute "count" is added on the grouplevel1 XML element, in case counting is requested (markup=c)
`grouplevel2 title="…"`		Second level of grouping.

Example

http://difusion-svc.ulb.ac.be/scholar?scholarID=19262&scholarInst=ULB&groupBy=genredifusion&markup=ahs

```
<grouplevel1 title="Participations à des congrès et colloques internationaux">
    <grouplevel2 title="2013">
        <doc seqno="1">
            <arr name="genre">
                <str>info:ulb-repo/semantics/conferenceContribution</str>
            </arr>
            <arr name="genrecvulb">
                <str>info:ulb-repo/semantics/conferenceContribution</str>
            </arr>
            <arr name="author">
                <str>Pauwels, Benoît</str>
```

```xml
                <str>Leroy, Anthony</str>
            </arr>
            <arr name="title">
                <str>Dissemination and Preservation of Digital Objects</str>
            </arr>
            <arr name="apa">
                <str>
                    Pauwels, B., &amp; Leroy, A. (2013). Dissemination and Preservation of Digital Objects:
                    Case study of digitized Ph.D. theses. Publication présentée à la conférence Open
                    Repositories 2013 (08-11 July 2013: Prince Edward Island).
                </str>
            </arr>
            <arr name="startpage">
                <str>
                    http://hdl.handle.net/2013/ULB-DIPOT:oai:dipot.ulb.ac.be:2013/151029
                </str>
            </arr>
            <arr name="abstract">
                <str>
                    Preservation activities at the ULB (Brussels, Belgium)This session presents the
preservation activities that are currently under development at the ULB both at logical-level and bit-
level. While bit-level preservation activities basically aims at keeping bits identical in the long term
future, logical-level preservation activities aims at ensuring that those bits will still be understandable
in the future. Our logical-level preservation solution is developed on Archivematica. Our system is
responsible for creating both DIPs that will be accessible through our diffusion repository and AIPs that
will be preserved in our bit-level preservation repository. To illustrate a complete logical-level
workflow, we will present the concrete case study of the creation of AIPs and DIPs for a digitized book
collection submitted in the TIFF format. We will study in particular the DIP creation workflows that we are
developing and which allows users to create an Internet Archive Book Reader version of the book. The second
part of the session concerns our bit-level preservation solution based on LOCKSS. We will present our
activities in developing a Private LOCKSS Network (PLN) and describe the concrete steps required to build
such a network.
                </str>
            </arr>
            <arr name="ftlink_restrictedaccess">
                <str>
                    https://dipot.ulb.ac.be/dspace/bitstream/2013/151029/1/PEI_workshop.pdf
                </str>
            </arr>
        </doc>
    </grouplevel2>
</grouplevel1>
```

xml-brief-ext

Every publication is described through a <doc> XML element with the following XML subelements and attributes.

xml element	optional attribute	description
doc	seqno="…"	Root element for a publication. An additional attribute "seqno" is added on the doc XML element, in case sequence numbering is requested (markup={s,t})
arr name="genre"		Genre as known in DI-pot
arr name="genrecvulb"		Genre as known in the CV of ULB
arr name="author"		All authors of the publication
arr name="title"		The title of the publication
arr name="pubdate"		
arr name="language"		
arr name="issn"		
arr name="isbn"		
arr name="cref"		
arr name="topic"		
arr name="page"		
arr name="apa"		The APA reference for the publication
arr name="startpage"		URL to the detail page of the publication in DI-fusion
arr name="abstract"		An abstract for the publication (only included if abstract is requested: markup=a)
arr name="ftlink_closedaccess"		URLs to full text that are available in closed access (only included if inks to full text is requested in the publication list: markup=l)
arr name="ftlink_restrictedaccess"		URLs to full text that are available in restricted access (intranet, embargo) (only included if inks to full text is requested in the publication list: markup=l)
arr name="ftlink_unrestrictedaccess"		URLs to full text that are available in open access (only included if inks to full text is requested in the publication list: markup=l)

The following additional XML elements are used in case a grouping is requested in the resulting publication list.

xml element	optional attribute	description
grouplevel1 title="…"	count="…"	Highest level of grouping. The title attribute contains the label for this grouping. Can be French or English depending on the language parameter on the GET request. An additional attribute "count" is added on the grouplevel1 XML element, in case counting is requested (markup=c)
grouplevel2 title="…"		Second level of grouping.

Example

http://difusion-svc.ulb.ac.be/scholar?scholarID=19262&scholarInst=ULB&groupBy=genredifusion&markup=ahs

```
<grouplevel1 title="Participations à des congrès et colloques internationaux">
    <grouplevel2 title="2013">
        <doc seqno="1">
            <arr name="genre">
                <str>info:ulb-repo/semantics/conferenceContribution</str>
```

```xml
            </arr>
            <arr name="genrecvulb">
                <str>info:ulb-repo/semantics/conferenceContribution</str>
            </arr>
            <arr name="author">
                <str>Pauwels, Benoît</str>
                <str>Leroy, Anthony</str>
            </arr>
            <arr name="pubdate">
                <str>2021-07-01</str>
            </arr>
            <arr name="title">
                <str>Dissemination and Preservation of Digital Objects</str>
            </arr>
            <arr name="apa">
                <str>
                    Pauwels, B., &amp; Leroy, A. (2013). Dissemination and Preservation of Digital Objects:
                    Case study of digitized Ph.D. theses. Publication présentée à la conférence Open
                    Repositories 2013 (08-11 July 2013: Prince Edward Island).
                </str>
            </arr>
            <arr name="language">
                <str>fr</str>
            </arr>
            <arr name="cref">
                <str>Science politique administrative</str>
                <str>Sciences sociales</str>
                <str>Intégration et cooperation européenne</str>
            </arr>
            <arr name="startpage">
                <str>
                    http://hdl.handle.net/2013/ULB-DIPOT:oai:dipot.ulb.ac.be:2013/151029
                </str>
            </arr>
            <arr name="abstract">
                <str>
                    Preservation activities at the ULB (Brussels, Belgium)This session presents the
preservation activities that are currently under development at the ULB both at logical-level and bit-
level. While bit-level preservation activities basically aims at keeping bits identical in the long term
future, logical-level preservation activities aims at ensuring that those bits will still be understandable
in the future. Our logical-level preservation solution is developed on Archivematica. Our system is
responsible for creating both DIPs that will be accessible through our diffusion repository and AIPs that
will be preserved in our bit-level preservation repository. To illustrate a complete logical-level
workflow, we will present the concrete case study of the creation of AIPs and DIPs for a digitized book
collection submitted in the TIFF format. We will study in particular the DIP creation workflows that we are
developing and which allows users to create an Internet Archive Book Reader version of the book. The second
part of the session concerns our bit-level preservation solution based on LOCKSS. We will present our
activities in developing a Private LOCKSS Network (PLN) and describe the concrete steps required to build
such a network.
                </str>
            </arr>
            <arr name="ftlink_restrictedaccess">
                <str>
                    https://dipot.ulb.ac.be/dspace/bitstream/2013/151029/1/PEI_workshop.pdf
                </str>
            </arr>
        </doc>
    </grouplevel2>
</grouplevel1>
```

xml-full

Every publication is represented as an MPEG21/DIDL[8] XML record, encapsulating descriptive metadata about the publication expressed according to the MODS[9] XML schema. The DIDL and MODS records comply with the application profiles described here:

http://homepages.ulb.ac.be/~bpauwels/CfB/DIDL-MODS%20profile%20for%20cultural%20heritage%20repositories%20in%20CfB.pdf.

Example

http://difusion-svc.ulb.ac.be/scholar?scholarID=19262&scholarInst=ULB&groupBy=genredifusion&reftype=xml-full&markup=hs

```
<grouplevel1 title="5.2.2. - Participations actives à des congrès et colloques internationaux">
    <grouplevel2 title="2013">
        <doc seqno="2">
            <arr name="originalRecord">
                <str>
                    <didl:DIDL xmlns:dc="http://purl.org/dc/elements/1.1/"
                        xmlns:dcterms="http://purl.org/dc/terms/"
                        xmlns:didl="urn:mpeg:mpeg21:2002:02-DIDL-NS"
                        xmlns:dii="urn:mpeg:mpeg21:2002:01-DII-NS"
                        xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
                        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                        xsi:schemaLocation="urn:mpeg:mpeg21:2002:02-DIDL-NS
http://standards.iso.org/ittf/PubliclyAvailableStandards/MPEG-21_schema_files/did/didl.xsd
urn:mpeg:mpeg21:2002:01-DII-NS http://standards.iso.org/ittf/PubliclyAvailableStandards/MPEG-
21_schema_files/dii/dii.xsd">
                        <didl:Item>
                            <didl:Descriptor>
                                <didl:Statement mimeType="application/xml">
                                    <dii:Identifier>info:hdl:2013/151029</dii:Identifier>
                                </didl:Statement>
                            </didl:Descriptor>
                            <didl:Descriptor>
                                <didl:Statement mimeType="application/xml">
                                    <dcterms:modified>2014-02-07T13:22:58Z</dcterms:modified>
                                </didl:Statement>
                            </didl:Descriptor>
                            <didl:Item>
                                <didl:Descriptor>
                                    <didl:Statement mimeType="application/xml">
                                        <rdf:type>info:eu-repo/semantics/descriptiveMetadata</rdf:type>
                                    </didl:Statement>
                                </didl:Descriptor>
                                <didl:Descriptor>
                                    <didl:Statement mimeType="application/xml">
                                        <dii:Identifier>info:hdl:2013/151029#mods</dii:Identifier>
                                    </didl:Statement>
                                </didl:Descriptor>
                                <didl:Component>
                                    <didl:Resource mimeType="application/xml">
                                        <mods:mods xmlns:mods="http://www.loc.gov/mods/v3"
                                            version="3.2"
                                            xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
                                            <mods:titleInfo>
                                                <mods:title>Dissemination and Preservation of
                                                  Digital Objects</mods:title>
                                                <mods:subTitle>Case study of digitized Ph.D.
                                                  theses</mods:subTitle>
                                            </mods:titleInfo>
                                            <mods:name type="personal" ID="n-2013-151029-1">
                                                <mods:namePart type="family">Pauwels</mods:namePart>
                                                <mods:namePart type="given">Benoît</mods:namePart>
                                                <mods:role>
```

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[8] MPEG21/DIDL : http://mpeg.chiariglione.org/standards/mpeg-21/digital-item-declaration
[9] MODS : Metadata Object Description Schema : http://www.loc.gov/standards/mods/

```xml
                                        <mods:roleTerm authority="marcrelator" type="code"
                                          >aut</mods:roleTerm>
                                        </mods:role>
                                    </mods:name>
                                    <mods:name type="personal" ID="n-2013-151029-2">
                                        <mods:namePart type="family">Leroy</mods:namePart>
                                        <mods:namePart type="given">Anthony</mods:namePart>
                                        <mods:role>
                                          <mods:roleTerm authority="marcrelator" type="code"
                                          >aut</mods:roleTerm>
                                        </mods:role>
                                    </mods:name>
                                    <mods:name type="conference">
                                        <mods:namePart> Open Repositories 2013 (08-11 July
                                           2013: Prince Edward Island) </mods:namePart>
                                    </mods:name>
                                    <mods:typeOfResource>text</mods:typeOfResource>
                                    <mods:genre>info:eu-
repo/semantics/conferenceContribution</mods:genre>
                                    <mods:genre>info:ulb-
repo/semantics/conferenceContribution</mods:genre>
                                    <mods:genre>info:ulb-
repo/semantics/openurl/document</mods:genre>
                                    <mods:originInfo>
                                        <mods:dateIssued encoding="iso8601"
                                          >2013-07-08</mods:dateIssued>
                                    </mods:originInfo>
                                    <mods:language>
                                        <mods:languageTerm type="code" authority="rfc3066"
                                          >en</mods:languageTerm>
                                    </mods:language>
                                    <mods:abstract> Preservation activities at the ULB
                                        (Brussels, Belgium)This session presents the
                                        preservation activities that are currently under
                                        development at the ULB both at logical-level and
                                        bit-level. While bit-level preservation activities
                                        basically aims at keeping bits identical in the long
                                        term future, logical-level preservation activities
                                        aims at ensuring that those bits will still be
                                        understandable in the future. Our logical-level
                                        preservation solution is developed on Archivematica.
                                        Our system is responsible for creating both DIPs
                                        that will be accessible through our diffusion
                                        repository and AIPs that will be preserved in our
                                        bit-level preservation repository. To illustrate a
                                        complete logical-level workflow, we will present the
                                        concrete case study of the creation of AIPs and DIPs
                                        for a digitized book collection submitted in the
                                        TIFF format. We will study in particular the DIP
                                        creation workflows that we are developing and which
                                        allows users to create an Internet Archive Book
                                        Reader version of the book. The second part of the
                                        session concerns our bit-level preservation solution
                                        based on LOCKSS. We will present our activities in
                                        developing a Private LOCKSS Network (PLN) and
                                        describe the concrete steps required to build such a
                                        network. </mods:abstract>
                                    <mods:classification
                                        authority="info:eu-repo/authority/cref"
                                        xml:lang="fr">Informatique
                                        générale</mods:classification>
                                    <mods:subject authority="info:ulb-repo/authority/other">
                                        <mods:topic>Digital Preservation</mods:topic>
                                        <mods:topic>Digitization</mods:topic>
                                        <mods:topic>METS</mods:topic>
                                        <mods:topic>JPEG 2000</mods:topic>
                                    </mods:subject>
                                    <mods:note type="info:eu-repo/semantics/pubstatus"
                                        >info:eu-repo/semantics/nonPublished</mods:note>
                                    <mods:recordInfo>
                                        <mods:recordCreationDate encoding="iso8601"
                                          >2013-11-06T18:23:22Z</mods:recordCreationDate>
                                    </mods:recordInfo>
                                    <mods:extension>
                                        <dai:daiList xmlns:dai="info:eu-repo/dai"
                                          xsi:schemaLocation="info:eu-repo/dai
```

```xml
http://difusion.ulb.ac.be/dai-extension.xsd">
                                            <dai:identifier IDref="n-2013-151029-1"
                                            authority="http://difusion.ulb.ac.be/dai"
                                            >19262</dai:identifier>
                                            <dai:identifier IDref="n-2013-151029-2"
                                            authority="http://difusion.ulb.ac.be/dai"
                                            >32552</dai:identifier>
                                        </dai:daiList>
                                    </mods:extension>
                                </mods:mods>
                            </didl:Resource>
                        </didl:Component>
                    </didl:Item>
                    <didl:Item>
                        <didl:Descriptor>
                            <didl:Statement mimeType="application/xml">
                                <rdf:type>info:eu-repo/semantics/objectFile</rdf:type>
                            </didl:Statement>
                        </didl:Descriptor>
                        <didl:Descriptor>
                            <didl:Statement mimeType="application/xml">
                                <dii:Identifier>info:hdl:2013/151029/1</dii:Identifier>
                            </didl:Statement>
                        </didl:Descriptor>
                        <didl:Descriptor>
                            <didl:Statement mimeType="application/xml">
                                <dcterms:modified>2013-11-06T18:22:29Z</dcterms:modified>
                            </didl:Statement>
                        </didl:Descriptor>
                        <didl:Descriptor>
                            <didl:Statement mimeType="application/xml">
                                <dc:description>Presentation</dc:description>
                            </didl:Statement>
                        </didl:Descriptor>
                        <didl:Descriptor>
                            <didl:Statement mimeType="application/xml">
                                <dcterms:accessRights>info:eu-
repo/semantics/restrictedAccess</dcterms:accessRights>
                            </didl:Statement>
                        </didl:Descriptor>
                        <didl:Descriptor>
                            <didl:Statement mimeType="application/xml">
                                <dcterms:available>2013-11-06</dcterms:available>
                            </didl:Statement>
                        </didl:Descriptor>
                        <didl:Component>
                            <didl:Resource mimeType="application/pdf"
ref="https://dipot.ulb.ac.be/dspace/bitstream/2013/151029/1/PEI_workshop.pdf"
                            />
                        </didl:Component>
                    </didl:Item>
                    <didl:Item>
                        <didl:Descriptor>
                            <didl:Statement mimeType="application/xml">
                                <rdf:type>info:eu-repo/semantics/humanStartPage</rdf:type>
                            </didl:Statement>
                        </didl:Descriptor>
                        <didl:Component>
                            <didl:Resource mimeType="application/html"
                                ref="http://hdl.handle.net/2013/ULB-
DIPOT:oai:dipot.ulb.ac.be:2013/151029"
                            />
                        </didl:Component>
                    </didl:Item>
                </didl:Item>
            </didl:DIDL>
        </str>
    </arr>
  </doc>
</grouplevel2>
</grouplevel1>
```

Lists

DI-fusion publication types

URI	description
info:ulb-repo/semantics/bookOneAuthor	Book with exactly one author
info:ulb-repo/semantics/bookCollaboration	Book with multiple co-authors
info:ulb-repo/semantics/bookEditor	Edition of a book
info:ulb-repo/semantics/bookPart	Chapter (or in general any part) of a book
info:ulb-repo/semantics/bookTranslation	Book which is a translation of another book
info:ulb-repo/semantics/articlePeerReview	Peer-reviewed article
info:ulb-repo/semantics/articleNonPeerReview	Non peer-reviewed article
info:ulb-repo/semantics/bookReview	Article which is a review of a book
info:ulb-repo/semantics/articleLetterToEditor	Published letter to the editor of a journal
info:ulb-repo/semantics/conferenceProceedings	The proceedings of a conference
info:ulb-repo/semantics/conferencePaper	Published paper of a conference
info:ulb-repo/semantics/conferenceContribution	Non published contribution to a conference
info:ulb-repo/semantics/conferencePoster	Poster submitted to a conference
info:ulb-repo/semantics/conferenceAbstract	Abstract submitted to a conference
info:ulb-repo/semantics/masterThesis	Student thesis
info:ulb-repo/semantics/doctoralThesis	Doctoral thesis (phd)
info:ulb-repo/semantics/postdoctoralThesis	Post doctoral thesis
info:ulb-repo/semantics/workingPaper	Working paper
info:ulb-repo/semantics/report	Scientific report
info:ulb-repo/semantics/reportPart	Part of a scientific report
info:ulb-repo/semantics/bibliography	
info:ulb-repo/semantics/patent	Patent
info:ulb-repo/semantics/contributionToPeriodical	Contribution to a general purpose (non scientific) journal
info:ulb-repo/semantics/broadcast	
info:ulb-repo/semantics/course	
info:ulb-repo/semantics/sound	
info:ulb-repo/semantics/picture	
info:ulb-repo/semantics/video	
info:ulb-repo/semantics/database	
info:ulb-repo/semantics/software	
info:ulb-repo/semantics/website	
info:ulb-repo/semantics/other	

file extension in function of filetype

filetype	file extension
pdf	pdf
rtf	rtf
bibtex	bib
csv	xls
ris	txt
xml	xml

filetype and reftype combinations

reftype	default filetype	allowed filetype
apa	pdf	pdf, rtf
bibtex	bibtex	bibtex,pdf,rtf
ris	ris	ris,pdf,rtf
csv	csv	csv
xml-brief	xml	xml
xml-brief-ext	Xml	xml
xml-full	xml	xml

groupBy specifications

groupBy	Description
genrecvulb	publications are grouped (and filtered) based on CV-ULB publication types, and on a second level based on descending year of publication
genredifusion	publications are grouped based on DI-fusion publication types, and on a second level based on descending year of publication
genrefnrs1	Publications are grouped and filtered according to specifications explained under the F.R.S. – FNRS Guide for Applicants (available from **http://www.fnrs.be/fr/financer-les-chercheurs/reglements-et-documents.html#RH**). This groupBy produces the list of publications for scholars that apply for a fellowship at F.R.S.-FNRS, for all cases not covered under genrefnrs2 and genrefnrs3.
genrefnrs2	Publications are grouped and filtered according to specifications explained under the F.R.S. – FNRS Guide for Applicants (available from **http://www.fnrs.be/fr/financer-les-chercheurs/reglements-et-documents.html#RH**). This groupBy produces the list of publications for scholars who are applying for a doctoral fellowship or for a postdoctoral researcher fellowship at F.R.S.-FNRS.
genrefnrs3	Publications are grouped and filtered according to specifications explained under the F.R.S. – FNRS Guide for Applicants (available from **http://www.fnrs.be/fr/financer-les-chercheurs/reglements-et-documents.html#RH**). This groupBy produces the list of publications judged equivalent by the F.R.S.-FNRS applicant as articles published in a peer-reviewed journal.
year	publications are grouped based on descending year of publication

roles specifications

markup	description
a	Scholar is a (co-)author of the publication
e	Scholar is a (co-)editor of the publication
p	Scholar is a (co-)promotor of the publication (thesis/dissertation)
m	Scholar is one of the members of the jury of the publication (thesis/dissertation)
d	Scholar is the president of the jury of the publication (thesis/dissertation)

markup specifications

markup	description
a	The abstract (if available) is included in the resulting publication list
b	The name of the scholar for which the publication list is generated is put in bold. Only available on the "scholar" API.
h	Headers of the groupings are included in the output. These are translated according to the language parameter.
l	Links to full-text (if available) are included in the resulting publication list
o	The ORCID Id is shown under the title of the publication list. Only available on the "scholar" API.
c	Number of publications under a heading are counted and included in the publication list (only at the highest level of grouping)
s	Continuous sequence numbering (every entry in the publication list is precede by a sequence number)
t	Sequence numbering is reset to zero for each grouping of the highest level

If both values s and t are specified, value t will have effect.

Specifying a markup option not included in the table above, has no effect on the resulting publication list.

Only certain combinations of the markup values are effective; in function of reftype and filetype. As listed below.

reftype/filetype	markup values that take effect	remarks
apa/pdf	a,b,h,l,o,c,s,t	
apa/rtf	a,b,h,l,o,c,s,t	
bibtex/bibtex	a,l	
bibtex/pdf	a,h,l,o,c,s,t	

bibtex/rtf	a,h,l,o,c,s,t	
csv/csv	a,l	
ris/ris	a,l	
ris/pdf	a,h,l,o,c,s,t	
ris/rtf	a,h,l,o,c,s,t	
xml-brief/xml	a,h,l,c,s,t	
xml-full/xml	h,c,s,t	Abstract and links to full texts are always included in xml-full reference type.