IPIG Request Submission Message as OpenURL

Method

- Map Request Submission Message (RSM) to existing metadata
    - Referent (Metadata formats Book, Journal, Dissertation, Patent. Dublin Core not mapped)
    - Service type (Metadata format Scholarly Community inappropriate so not mapped)
    - Referring entity (no metadata format currently registered)
    - Requester (no metadata format currently registered?)
    - Resolver (no metadata format currently registered)
    - Referrer (no metadata format currently registered)
- Decide supplementary metadata formats needed by RSM
- Create draft profile combining existing metadata formats and ILL specific ones
    - define use cases for RSM
    - base on DC profile, substituting metadata formats as defined
- Apply to OpenURL for URIs for metadata formats
- Finalise profile with URIs

Mapping

(data elements in IPIG Request Submission Message sequence)

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
RequestSubmission Message	Message directed to a system such as an InterLibrary loan system that conveys an request usually on behalf of a library user	JG	-	-	-
Authentication	Group of data elements that will establish and endorse the identity of someone or an institution	JG	Requester (req)		group elements not included in KEV?
RequestingSystem	System that creates a message or that records information such as a password	JG	Referrer (rfr)	id	
Password	Code used by a system to authenticate the identity of an individual or automated process that has requested or is using a system function or service.	8459-5 1012	Requester (req)	pwd	
DateInfo	Sequence of one or more	JG	Referrer		group elements not included

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	repeating DateOfClientRequest elements		(rfr)		in KEV?
DateOfClientRequest	Time and date at which a request submission message was originally created	JG	Referrer (rfr)	datereq	
RequestConditions	sequence of one or more repeating Request Requirements structures	10161-1	ServiceType (svc)		group elements not included in KEV?
RequestRequirements	Data indicating specific characteristics needed in relation to a request such as an interlibrary loan request	JG	ServiceType (svc)		group elements not included in KEV?
ServiceRequestType	code for the type of ILL service requested	10161-1	ServiceType (svc)	type	
ClientNeedBeforeDate	date by which client needs the item or reply	10161-1	ServiceType (svc)	needbef	
ClientMaximumCost	maximum cost that client will pay to obtain an ILL service	10161-1	ServiceType (svc)	maxcst	
ClientNotesComments	Data string providing miscellaneous and additional information relating to a request such as an interlibrary loan	JG	ServiceType (svc)	note	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	request				
RightsInformation	Group of data elements describing intellectual entitlements and distribution entitlements to access, copy, modify or delete a resource	8459-5 5031			group elements not included in KEV?
RightsInformationType	Code indicating the nature of an individual's right to an item, including right to access, right to borrow or right to receive a copy	JG	Referent (rft)	righttyp	
RightsInformationValue	Code or string indicating details of an individual's right to an item	JG	Referent (rft)	right	
ClientInfo	Group of data elements or code intended to identify an individual or institution involved in a transaction.	8459-5 1090	Requester (req)		group elements not included in KEV?
ClientNameStructured	provides components of the personal name of the client, structured to permit paring and allow for the component	NCIP	Requester (req)		group elements not included in KEV?

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	elements to be manipulated in the order and format most suited to a given use.				
ClientSurName	Surname or family name of the client. It may consist of a single work, or may be compound, that is, joined by a hyphen or contain more than one work. Examples include single words such as Stevens, compound words such as Bridges-Webb and multiple words such as Van der Meer, Day Lewis.	NCIP	Requester (req)	surname	
ClientGivenName	gives simple, double or compound name that distinguishes an individual client from others in a family carrying a common name. Christian names and forenames are included as given names.	NCIP	Requester (req)	forename	
ClientInitials	provides the initial letter(s) of the given name of the client	NCIP	Requester (req)	initials	
ClientPrefix	the name element, which placed before other personal name elements such as surname and given name, and when used in	NCIP	Requester (req)	prefix	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	association with these elements, services to identify an individual client, but does not form an integral part of the client's name; examples include titles, epithets, or indication of office, such as Mr., Hon., Dr.				
ClientSuffix	denotation of a family relationship, initials of an academmic degree or those denoting membership in an organization that, in conjunction with a surname and a given name or names, serves to identify an individual client, but does not form an integral part of the client's name. Examples include Jr., Sr. III which denote relative family relationship, M.D., M.L.S., Ph.D which are initials of an academic degree and F.R.S., which denotes membership in an organization.	NCIP	Requester (req)	suffix	
ClientStatus	Code or phrase that may indicate a user's borrowing and other privileges.	8459-4 424	Requester (req)	status	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
ClientProxyFor	Data string indicating a person or institution for whom a request is being made by a user	JG	Requester (req)	proxy	
DepartmentSchool	Phrase that provides information about a section of an organisation with which a user is associated.	8459-4 445	Requester (req)	dept	
CourseNameNumber	Phrase that provides information about an educational program associated with a user	JG	Requester (req)	courseid	
ClientOtherAffiliation	Data string defining a user's relationship to an organization not directly concerned with an existing transaction.	JG	Requester (req)	otheraff	
ClientIdentifier	number(s), letter(s) or code serving to identify the client unambiguously within the domain of the specified identifier type	Barb	Requester (req)		group elements not included in KEV?
IdentifierType	type of identifier within which a	Barb	Requester	idtype	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	number(s), letter(s) or code can identify clients unambiguously type		(req)		
ClientIdentifierValue	number(s), letter(s) or code serving to identify the client unambiguously within a specified type of client identifier	Barb	Requester (req)	id	
ClientBarcode	number(s), letter(s) or code in the form of a barcode,serving to identify the client unambiguously	Barb	Requester (req)		Agreed to remove in Nov 2003
ClientPaymentInformation	Group of data elements indicating an account identification and account owner used for payment of a transaction for a user	JG	Requester (req)		group elements not included in KEV?
AccountInstitution	Identification of an organization associated with a particular account	JG	Requester (req)	acctinst	
AccountNumber	Identification of a particular account	JG	Requester (req)	acctid	
CreditCard	Group of data elements relating	JG	Requester		group elements not included

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	to a person's or institution's credit account that is operated by a card or by the identification represented on a card		(req)		in KEV?
CreditCardType	Name of an organization that administers a credit card account	JG	Requester (req)	ccardtyp	
CreditCardOrder	Data string indicating the preferred sequence in which to use credit cards when information on more than one credit card is supplied.	JG (with help from MN)	Requester (req)	ccardseq	
CreditCardHolderName	Name of a person or institution associated with a credit card account	JG	Requester (req)	ccardname	
CreditCardNumber	Identification of a credit card account	JG	Requester (req)	ccardid	
CreditCardExpiryDate	Date and time at which the validity of a particular credit card ceases	JG	Requester (req)	ccardexp	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
AddressInfo	information about the client's physical or electronic address(es)	NCIP	Requester (req)		group elements not included in KEV?
AddressRoleType	describes the purpose or role of the address associated with the client	NCIP	Requester (req)	addrrole	
StartDate	Date and time of the commencement of the validity of something, including an address	JG	Requester (req)	addrdate	
EndDate	Date and time of the expiry of the validity of something, including an address	JG	Requester (req)	addrdateend	
PhysicalAddress	designated geographical location recognized by a postal authority or other carrier, to which things may be delivered	NCIP	Requester (req)	addr	
ElectronicAddress	address used to communicate electronically with the client	NCIP	Requester (req)	eaddr	
ElectronicAddressType	identifies the type of address used to communicate electronically with the client, for example, URL, fax or telephone	NCIP	Requester (req)	eaddrtyp	
StructuredAddress	information about a physical	NCIP	Requester		group elements not included

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	address in a structure that permits parsing and allows for the component elements to be assembled in the order and format most suited to a given use		(req)		in KEV?
Addressee	Identification of an intended recipient of an item or message	JG	Requester (req)	addressee	
CareOf	gives name of a person, organization, or organizational unit to whose attention the addressed item is intended to be directed	NCIP	Requester (req)	careof	
LocationInBuilding	gives the name of a location within a building or building complex. Used to provide more detailed information when the Street element is not sufficient to identify a particular location	NCIP	Requester (req)	buildingloc	
BuildingName	gives the name of a house, building or building complex	NCIP	Requester (req)	building	
Street	gives the name of the location of a house, building or building complex within a city or district	NCIP	Requester (req)	street	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
PostOfficeBox	gives the box number assigned by the postal authority	NCIP	Requester (req)	boxid	
District	gives name of a sub-entity within a country such as a parish, county or district	NCIP	Requester (req)	district	
Line1	gives one or more of Location Within Building, House Name, Street, Post Office Box and/or district when a lower level of granularity is not needed	NCIP	Requester (req)	line1	
Line2	gives one or more of House Name, Street, Post Office Box and/or district when Line 1 is not sufficient	NCIP	Requester (req)	line2	
Locality	gives name of a city, suburg or postal area	NCIP	Requester (req)	locality	
Region	gives name of an area within a country such as a state, province, department or prefecture	NCIP	Requester (req)	region	
Country	gives name of a country	NCIP	Requester (req)	country	
PostalCode	gives the code assigned by the postal authority of a country that uniquely identifies an address or groups of addresses	NCIP	Requester (req)	postcode	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
ClientContactInfo	Group of data elements indicating the communication preferences of a user	JG	Requester (req)		group elements not included in KEV?
PreferredContactMode	Data string that indicates the means of communication preferred by a user	JG	Service Type (svc)	contactmde	
PreferredContactLanguage	identifies the language in which the Client wishes to communicate	639-2	Service Type (svc)	contactlang	
ItemInfo	information that identifies the required item	8459-1	Referent (rft)		group elements not included in KEV?
ItemInfo	Group of data elements that identifies a particular copy or piece of a bibliographic item or resource within a library collection.	8459-5 5200	Referent (rft)		group elements not included in KEV?
Author	name of the person or corporate body responsible for the intellectual or artistic content of an item, including composers, creators or originators of an item or:	8459-1 8459-5 5011	Referent (rft)	aulast (b j d) aufirst (b j d) au init (b j d) auinit1 (b j d) auinitm (b j d) ausuffix (b j d) au (b j d)	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	Person or organisation primarily responsible for creating the intellectual content of a bibliographic item or resource			aucorp (b j) inventor (p) invlast (p) invfirst (p)	
Title	word or phrase, or a group of characters, usually appearing on the document, by which it is convenient to refer to it, which may be used to identify it, and which often (though not invariably) distinguishes it from any other document

or:
Name given to a bibliographic item or resource usually by the creator or publisher. | ISO 4

8459-5 5012 | Referent (rft) | jtitle (b j) stitle (b j) btitle (b) title (b j d p) | |
UniformTitle	Name by which a bibliographic work is commonly known	JG	Referent (rft)	utitle	no map in b j d p
SubTitle	word or phrase completing the title proper of a document appearing on the title page.	ISO 1086	Referent (rft)	subtitle	no map in b j d p
SponsoringBody	corporate body or organization that issued the item or that is associated with its authorship	10161-1	Referent (rft)	assignee (p)	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
PlaceOfPublication	geographic location of the publisher, or failing this, of the rinter, distributor or maufacturer	10161-1	Referent (rft)	place (b) co (d p) cc (d p) applcc (p)	
Publisher	person(s) or organization(s) responsible for the publication of an item	10161-1	Referent (rft)	pub (b)	
PublicationDate	date of issue of a work as designated by the publisher of the work	10161-1	Referent (rft)	date (b j d p) pub date (p)	
Language	3-character code representing the language of the requested item	ISO 639	Referent (rft)	lang	no map in b j d p
SeriesTitleNumber	name given to a number of separate publications related to one another by the fact that each bears a collective title applying to the group or subgroup as a whole as well as its own title, and its number within that group	10161-1	Referent (rft)	series (b)	
Volume	Identifier of a physical unit of a serial or multi-volume monograph	8459-1	Referent (rft)	volume (b j)	
Issue	Number, letter or word identifying a unit of an item which is, or the volumes of	8459-1	Referent (rft)	issue (b j)	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	which are, published in parts or: Number or phrase uniquely identifying a unit of an item that is published serially in parts.	8459-5 5050			
Edition	all the copies of an item produced from one master copy or substantially the same type image, having the same contents, and, int eh case of non-book materials, issued by a particular publishing agency or group of such agencies	8459-1	Referent (rft)	edition (b)	
ThisEditionOnly	Code used to indicate that a request cannot be fulfilled by a similar publication with a different edition	JG	Service Type (svc)	thised	
ReportDocumentNumber	Identification of a document by an institution	JG	Referent (rft)	techno	in technical report format - draft issued (?)
ArticleAuthor	author of an item that is a component part of another item	10161-1	Referent (rft)	aau	no map b j d p
ArticleTitle	title of an item that is a component part of another item	10161-1	Referent (rft)	atitle (b j)	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
Pagination	numbering of the pages of an item or a component part of an item	10161-1	Referent (rft)	spage (b j) epage (b j) pages (b j) tpages (b d)	
ArticlePublicationDate	publication date assigned by the publisher to identify the unique bibliographic component of a work	10161-1	Referent (rft)	adate	no map in b j d p
DissertationThesisInformation	Group of data elements providing information on a document recording original intellectual work pertaining to the environment in which the work was created	JG	Referent (rft)		group elements not included in KEV?
Level	Signification of merit given by an institution to an original intellectual work	JG	Referent (rft)	degree (d)	
Institution	Institution administering a thesis or dissertation	JG	Referent (rft)	inst (d)	
Year	Year in which a dissertation or thesis was admitted by an institution	JG	Referent (rft)	date (d)	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
NationalBibliographyId	information identifying the national bibliography and the corresponding record number for the desired item	10161-1	Referent (rft)		group elements not included in KEV?
NationalBibliographyAuthority	information identifying the national bibliography	10161-1	Referent (rft)	batbibau	no map b j d p
NationalBibliographyNumber	information identifying the record number within the identified national bibliography for the desired item	10161-1	Referent (rft)	natbibid	no map b j d p
ISBN	International Standard Book Number assigned to a monograph	10161-1	Referent (rft)	isbn (b j d)	
ISSN	International Standard Serial Number assigned to a serial title	10161-1	Referent (rft)	issn (b j) eissn (b j)	
BibliographicSource	Catalogue, listing or other authoritative document or service used to identify or locate a bibliographic item	8459-2 815 modified	Referring entity (rfe)	bibsrc	Is this a group?
UniqueItemId	Unique number or code used by a system to identify a physical copy involved in a transaction.	8459-5 5201 modified	Referent (rft)	itemid	no map b j d p
VerificationReferenc	authoritative source of	8459-1	Referring	verif	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
eSource	bibliographic information used to identify or locate an item		entity (rfe)		
AdditionalNumberLetters	string of additional numbers and letters that idenfify an item	10161-1	Referent (rft)	coden (b j) sici (b j) artnum (b j) bici (b) applnumber (p) number (p)	
RequestedMaterialFormat	Data string specifying a preference for a particular physical or digital manifestation of a bibliographic item or resource.	8459-5 5024 modified for this element	Service Type (svc)	reqfmt	
RequestedMaterialLanguage	Code specifying a preference for a particular language version of a bibliographic item or resource	JG	Service Type (svc)	reqlang	
SupplementalItemDescription	additional item description information that may be represented in a machine-readable format, for example, a MARC record	10161-1	Referent (rft)	advisor (d)	
PossibleSuppliers	sequence of one or more potential suppliers of the item requested by the client, arranged in preference order	Barb	Service Type (svc)	posssup	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
SupplierOrder	string indicating the position of the supplier in the client's preference order of possible suppliers of the requested item	Barb	Service Type (svc)	supseq	
LibraryCodeOrSymbol	number(s), letter(s) or a code serving to identify unambiguously and in an abbreviated format a library, institution or corporation, e.g., an institution's national union catalogue symbol	10161-1	Requester (req) or Resolver (res)		
LibraryName	word, phrase or abbreviation that identifies a library	10161-1	Requester (req) or Resolver (res)	library	
CopyNumber	data element indicating the specific copy of a bibliographic unit for which holdings are being reported.	ISO 10324	Referent (rft)	copyid	no map b j d p
Location	location where an item is housed at a particular point in time	Barb	Referent (rft)	loc	no map b j d p
Holdings	record of the locations of a specific bibliographic item and, optionally, the units of that item held at a location	ISO 10324	Referent (rft)	hold	no map b j d p

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
StructuredHoldings	components of a holdings statement, structured to permit parsing and allow for the component elements to be manipulated in the order and format most suited to a given use	Barb	Referent (rft)	strhold	no map b j d p
Enumeration	one or more sequences of numeric or alphabetic designation(s) of a specific part of a bibliographic item, for example the enumeration for Part 2 of Issue 13 of Volume 235 of an serial issue is represented as 235:13:2 or: Number, letter or word identifying a unit of an item that is published in parts and identifying the relationship of the part to the whole item.	NCIP 8459-5 5045	Referent (rft)	volume (b j) part (b j) issue (b j)	
Chronology	one or more sequences of structured information that describe the time period covered by a specific part of a	NCIP	Referent (rft)	chron (b j) ssn (b j) quarter (b j)	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
	bibliographic item, for example, the chronology for a newpaper issue published April 16, 1998 is represented as 1998/04/16 or: Phrase expressing a time period identifying a unit of an item which is published serially in parts and identifying the relationship of the part to the whole item.	8459-5 5049			
Availability	Data string that indicates special restrictions that may apply to a bibliographic item or resource at the time of a transaction.	8459-5 5215 modified	Service Type (svc)	avail	When would this be used in the request submission message? – overlap with 'need before'
Notes	Miscellaneous information associated with a request such as an interlibrary loan request	JG	Service Type (svc)	note	
SystemId	Identification of a system associated with a message such as an interlibrary loan request	JG	Referrer (rfr)	systemid	

Element Name	Definition	Source of definition	OpenURL entity (kev prefix)	kev suffix (b=book j = journal d=dissertation p=patent)	Comment
CallNumber	String of characters that identifies a copy's shelving location in relation to other copies.	8459-5 5207	Referent (rft)	callno	
No map				genre (b j)	
				kind (p)	
				applyear (p)	
				appldate (p)	
				prioritydate (p)	

Conclusion

Metadata formats needed as follows:

- Referrer (rfr_val_fmt)
- Service Type (svc_val_fmt)
- Requester (req_val_fmt)
- Referent (rft_val_fmt) – additional format to be used to supplement book, journal, dissertation, patent and DC.

The existing metadata formats for Referent are relatively complete at the conceptual level (corresponding to the top three FRBR layers – work, expression and manifestation). However they do not include the elements sufficient for identifying a particular physical item. Advice is needed about the possibility of using more than one metadata for Referent. If this is not possible then the IPIG referent metadata format needs to inherit from the existing referent metadata formats.