

DRAFT

Conceptual Model for a new standard for ILL transactions

For discussion at mailing list "interested parties"

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Request

The Request message includes the information about the item and service being requested. This message is sent from the Requesting library to the Supplying library.

Some of the information in the Request needs to be machine readable therefore acceptable codes will be made available on a Web-site. But the standard includes no control as part of the transaction so code values other than those on the web site, can be used; but this is not recommended. This is indicated by LIST.

The numbers of mandatory elements are minimized. Mandatory elements are indicated by an M.

Some elements can be repeated. This is indicated by a R.

** = second level

*** = third level

Request			
	Header	Administrative information	M
	BibliographicInfo	Details of the item being requested	M
	ServiceInfo	Details of the service being requested	
	LocationInfo	Suggested list of potential suppliers	
	DeliveryInfo	Where & how to send the item	
	RequesterInfo	Info about the requesting library	
	BillingInfo	How to bill the requesting library	

Header			
	IdSupplyingLibrary	ISIL or LocalDefined	M
	IdRequestingLibrary	ISIL or LocalDefined	M
	Timestamp	UTC: YYYY-MM-DD T hh:mm:ssZ	M
	RequestNumberRequestingLibrary	Requesting library's Request Number	M
BibliographicInfo			M
	UniqueldSupplyingLibrary	Supplying library's s unique identifier for the requested title, e.g., as held in their catalogue	
	Title		
	Author		
	Subtitle		
	SeriesTitle		
	Edition		
	PartTitle	ArticleTitle or other kind of PartTitle	
	PartAuthor	ArticleAuthor or other kind of PartAuthor	

	Volume		
	Issue		
	PagesRequested		
	EstimatedNoPages		
	ISSN		R
	ISBN		R
	ISMN		
	AdditionalNumbers		
	Sponsor		
	InformationSource		
	PublicationInfo	[Next level element]	
	BibliographicIdentifier	[Next level element]	
PublicationInfo			
	Publisher	Name of Publisher	
	PublicationType	Book, Journal, Article, etc	LIST
	PublicationDate	For journals and articles this should be the part pub date, not the original journal publication date.	
	PublicationPlace		
** BibliographicIdentifier		List of one or more unique identifiers (form different systems) for the requested title.	R
	BibliographicNumberType	OCLC, Medline, LC, BL, etc.	LIST
	BibliographicNumber	Unique identifier for this title as defined by this number type	
ServiceInfo			
	ServiceType	Copy or Loan	
	ServiceLevel	Urgent/Normal/SecondaryMail etc.	LIST
	MediumType	DVD/LargePrint/BlueRay/MicroForm etc	LIST
	RequestSource		
	NeedBeforeDate		
	CopyrightCompliance	Copyright Fee Paid / Fair Dealing / etc.	LIST
	AnyEdition	Values Y or N – for YES/NO	
	Note	Human readable note	
LocationInfo		<i>A sorted list of potential suppliers given to the current (brokering) Supplying library by the Requesting library</i>	R
	SupplierCode	ISIL or LocalDefined	
	Supplier Description		
	RecordNumber		
	CallNumber		

	SummaryHoldings		
	AvailabilityNote		
DeliveryInfo		<i>A sorted list of suggested delivery methods, each with its own delivery address</i>	R
	ShippedMethod	Mail/Ariel,/Odyssey/URL/Email etc	LIST
	DeliveryAddress	ElectronicAddress or MailingAddress	
RequestingLibraryInfo		<i>Details of the RequestingLibrary and possibly the patron for whom the request being made</i>	
	Name	Name of RequestingLibrary	
	PatronID		
	PatronSurname		
	PatronFirstname		
	UserID		
	UserPassword		
	ContactInfo	[Next level element]	
** ContactInfo		<i>Contact name and address of the RequestingLibrary</i>	R
	ContactName		
	ContactMethod	Email/Mail/Phone/Skype	LIST
	ContactAddress	ElectronicAddress or MailingAddress	
BillingInfo			
	PaymentMethod	Invoice/Email/Credit Card etc...	LIST
	MaximumCost	Requesting library will pay the given amount	
	Currency	Ref. ISO 4217	LIST
	BillingMethod	Billing method preferred the requesting library	LIST
	BillingAddress	ElectronicAddress or MailingAddress	
*** MailingAddress			
	AddressLineOne		
	AddressLineTwo		
	Locality		
	Region	Ref. ISO 3166-2	LIST
	Country	Ref. ISO 3166-1	LIST
	PostalCode		
*** ElectronicAddress			
	Protocol	Email/FTP/Chat/Skype etc.	LIST
	Address		

Supplying Library Message

A SupplyingLibraryMessage is a message sent from the Supplying library to the Requesting library. The message may be in response to, a request or a message from the Requesting library or maybe a message initiated by Supplying library. In all cases, the same message is used, but only a few elements are mandatory.

Some of the information in the Request needs to be machine readable therefore acceptable codes will be made available on a Web-site. But the standard includes no control as part of the transaction so code values other than those on the web site, can be used; but this is not recommended. This is indicated by LIST.

Mandatory elements are on an absolute minimum. Mandatory elements are indicated by an M.

** = second level

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Message		
	Header	Administrative information
	MessageInfo	Response and notes
	StatusInfo	Current status; may be after changes because of message
	DeliveryInfo	Information about shipped item

Header			
	IdSupplierLibrary	ISIL or LocalDefined	M
	IdRequestingLibrary	ISIL or LocalDefined	M
	Timestamp	UTC: YYYY-MM-DD T hh:mm:ssZ	M
	RequestNumberRequestingLibrary	Requesting library's Request Number	M
	RequestNumberSupplyingLibrary	Supplying library's Request Number	
MessageInfo			M
	ReasonForMessage	[Fixed list below]	M
	AnswerYesNo	Values Y or N – for YES/NO to action Renew and Cancel in a RequestingLibraryMessage	
	Note	Human readable note	
	ReasonUnfilled	Code for unfilled requests Cost exceeds max cost / Not on shelf etc.	LIST
StatusInfo			M

	Status	[Fixed list below]	
	ExpectedDeliveryDate	UTC: YYYY-MM-DD T hh:mm:ssZ The date the Supplying library expects to send the item.	
	DueDate	UTC: YYYY-MM-DD T hh:mm:ssZ	
	LastChange	UTC: YYYY-MM-DD T hh:mm:ssZ Date for last change of status	M
DeliveryInfo			
	DateSent	UTC: YYYY-MM-DD T hh:mm:ssZ	
	ItemID	Value of Barcode or RFID-tag Id	
	SentVia	Mail, Ariel, Odyssey, URL, Email etc	LIST
	LoanCondition	Library use only / No reproduction / etc	LIST
	MediumType	DVD/LargePrint/BlueRay/MicroForm etc	LIST
	Costs	[Next level element]	
** Costs			
	Price		
	Currency	Ref. ISO 4217	

ReasonForMessage		
For message as reaction to a Request		
	Request	Supplying library answering a request
For messages as reaction to a RequestingLibraryMessage		
	StatusRequest	Answer to a action <i>StatusRequest</i> from Requesting library
	Renew	Answer to a action <i>Renew</i> from Requesting library
	Cancel	Answer to a action <i>Cancel</i> from Requesting library
For messages initiated by SupplyingLibrary Note: These messages are only for "two way protocol"		
	StatusChange	Supplying library is indicating a change of status. New status appear from Status element
	Notification	Supplying library is sending a message

Status	
Status before shipping	

	RequestReceived	Supplying library has received the request.
	ExpectToSupply	Supplying library expects to fill the request, e.g., based on information in the catalogue, The message may include an ExpectedDeliveryDate
	WillSupply	Supplying library has found the item on the shelf but has not sent it yet.
Status pending (loans only)		
	OnLoan	An item is currently on loan to the requesting library for this request
	Overdue	An item currently on loan to the requesting library for this request is now overdue
	Recalled	An item currently on loan to the requesting library for this request has been recalled
Status finish		
	Unfilled	Supplying library cannot fill the request. Details are provided in the ReasonUnfilled element. The Requesting library may submit another request changing elements such as the ServiceLevel and MaximumCost
	Completed	Supplying library has sent the requested item (this is only used for requests with service level = copy)
	LoanCompleted	Supplying library has received back an item loaned to the requesting library (only used for requests with service level = loan)
	CompletedWithoutReturn	Supplying library has closed the request without receiving back an item loaned to the requesting library (e.g. because of loss or damage).
	Cancelled	Supplying library has cancelled the request (as indicated by the Requesting library)

Requesting Library message

A Requesting Library message is a message from Requesting Library to Supplier Library.

Mandatory elements are on an absolute minimum. Mandatory elements are indicated by an M.

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RequestingLibraryMessage		
	Header	Administrative information
	ActiveSection	Elements describing what to do

Header			
	IdSupplierLibrary	ISIL or LocalDefined	M
	IdRequestingLibrary	ISIL or LocalDefined	M
	Timestamp	UTC: YYYY-MM-DD T hh:mm:ssZ	M
	RequestNumberRequestingLibrary	ID on request defined by requesting library	M
	RequestNumberSupplierLibrary	ID on request defined by supplier library	
ActiveSection			M
	Action	[Fixed list below]	M
	Note	Human readable note	

Action		
	StatusRequest	Returns an SupplierLibraryMessage with empty AnswerYesNo
	Renew	Returns an SupplierLibraryMessage with Yes or No and DueDate
	Cancel	Returns an SupplierLibraryMessage with Yes or No and if yes, status Cancelled
	ShippedReturn	Information to Supplier Library
	Received	Information to Supplier Library
	Notification	Human readable message with no active action – only the human readable note