mEDRA Query Response Message: xml message overview

This document provides the specifications of the response message containing the results of queries performed on the CrossRef (CR) platform according to the mEDRA Query Response Schema. Depending on the type of query submitted by the user, every valid response message may include *either* one or more occurrences of the Query group (in response messages to Metadata Query, DOI Query, Simple Text Query) *or* one or more occurrences of the ForwardLinking group (in response messages to Cited-By Query). Some elements of the message response may be associated with attributes carrying additional information on the query results (see Query attributes sheet and ForwardLinking attributes sheet). For each element, the "In response to" column specifies whether the element is used in response messages to all query types (ALL Queries) or whether it only occurs in the responses to some query types (Metadata Query, DOI Query, Simple Text Query; Cited-By Query)

Element	Attribute	Datatype	Cardinality	Notes	In response to:
QueryResponseMessage			1	Every valid query response starts with the element <QueryResponseMessage xsi:schemaLocation="http://www.medra.org/query http://www.medra.org/schema/query/crossref/mEDRA_query_response_1.0.xsd" xmlns="http://www.medra.org/query" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> and contains one single <Header> group and one single QueryResponse group.	ALL Queries
Header			1	Every QueryResponseMessage must contain one and only one occurrence of the Header group	ALL Queries
Header/FromEmail		string (1-n char)	0-1	The value within the FromEmail element indicates the message sender. In every QueryResponseMessage this value is always a valid e-mail address of the mEDRA domain, to be contacted by the user for assistance	ALL Queries
Header/ToEmail		string (1-n char)	1	The value within the ToEmail element contains the message addressee. It contains the same value as specified by the user in the FromEmail element in the Header group of the corresponding QueryRequestMessage.	ALL Queries
Header/MessageReferenceNumber		alphanumeric string (4-100 char)	1	The value within the MessageReferenceNumber element contains the reference number assigned by the user to the corresponding QueryRequestMessage.	ALL Queries
/Header					
QueryResponse			1	Every QueryResponseMessage contains one and only one occurrence of the QueryResponse group. Depending on the query type that the user specified in the corresponding QueryRequestMessage, the QueryResponse group may contain: *either* one or more occurrences of the Query group *or* one or more occurrences of the ForwardLinking group.	ALL Queries
Query	*enable-multiple-hits; key; forward-match; status; fl_count*		0-n	Group of elements containing, in each one of its occurrences, the DOI and the bibliographic metadata matching a user query (Metadata Query, DOI Query or Simple Text Query). **See separate documentation on the elements of the Query group.**	Metadata Query; DOI Query; Simple Text Query
/Query					
ForwardLinking	*doi*		0-n	Group of elements containing, in each one of its occurrences, the response to a Cited-By query. **See separate documentation on the elements of the ForwardLinking group.**	Cited-By Query

ForwardLinking/CitingArticle	*fl_count*		0-n	Group of elements containing, in each one of its occurrences, the DOI and bibliographic metadata of an article citing the DOI submitted by the user in a Cited-By Query. **See separate documentation on the elements of the ForwardLinking group.**	Cited-By Query
ForwardLinking/CitingBook	*fl_count*		0-n	Group of elements containing, in each one of its occurrences, the DOI and bibliographic metadata of a monograph citing the DOI submitted by the user in a Cited-By Query. **See separate documentation on the elements of the ForwardLinking group.**	Cited-By Query
/ForwardLinking					
/QueryResponse					
/QueryResponseMessage					

mEDRA Query Response Message: elements of the Query group				
This document describes the elements that may occur within the Query group in the reponse message to the following type of queries: Metadata Query, DOI Query or Simple Text Query. An xml response message may contain the responses to more queries submitted in the same QueryRequestMessage. Some elements in the message response may be associated with attributes carrying additional information on the query results (see Query attributes sheet).				
Use case 1: Query Response carrying the metadata of an ARTICLE (response to Metadata Query, DOI Query, Simple Text Query)				
Element	**Attribute**	**Datatype**	**Cardinality**	**Notes**
QueryResponseMessage/QueryResponse/Query	*enable-multiple-hits; key; forward-match; status; fl_count*		0-n	Group of elements containing, in each one of its occurrences, the DOI and the bibliographic metadata matching a user query (Metadata Query, DOI Query or Simple Text Query). **See separate documentation on mEDRA Query Response Message**
QueryResponseMessage/QueryResponse/Query/DOI	*type*	string	0-1	The DOI associated to the article
QueryResponseMessage/QueryResponse/Query/JournalTitle	*match*	string	0-1	Journal title
QueryResponseMessage/QueryResponse/Query/JournalVolumeNumber	*match*	string	0-1	Volume number
QueryResponseMessage/QueryResponse/Query/JournalIssueNumber	*match*	string	0-1	Journal issue number
QueryResponseMessage/QueryResponse/Query/JournalIssueDate	*match*	integer between 1400 and 2200	0-1	Journal issue publication date
QueryResponseMessage/QueryResponse/Query/ArticleTitle		string	0-1	Article title
QueryResponseMessage/QueryResponse/Query/ISSN	*match, type*	4 digits + hyphen (optional) + 3 digits + 1 digit or the X character	0-2	Journal ISSN
QueryResponseMessage/QueryResponse/Query/AuthorName	*match*	string	0-1	Article author's name. Each Query group may contain either an AuthorName element or an AuthorList group
QueryResponseMessage/QueryResponse/Query/AuthorList	*et-al*		0-1	Group of elements containing the authors list. Each Query group may contain either an AuthorName element or an AuthorList group.
QueryResponseMessage/QueryResponse/Query/AuthorList/Author	*first-author*		1-10	Group of elements containing the full details of an author. The AuthorList group contains at least one Author group, up to a maximum of 10
QueryResponseMessage/QueryResponse/Query/AuthorList/Author/NamesBeforeKey		string	0-1	Author's first name
QueryResponseMessage/QueryResponse/Query/AuthorList/Author/KeyNames		string	1	Author's last name
QueryResponseMessage/QueryResponse/Query/FirstPageNumber	*match*	string	0-1	Number of the first page of the article
Use case 2: Query Response carrying the metadata of a MONOGRAPH (response to Metadata Query, DOI Query, Simple Text Query)				
Element	**Attribute**	**Datatype**	**Cardinality**	**Notes**
QueryResponseMessage/QueryResponse/Query	*enable-multiple-hits; key; forward-match; status; fl_count*		0-n	Group of elements containing, in each one of its occurrences, the DOI and the bibliographic metadata matching a user query (Metadata Query, DOI Query or Simple Text Query). **See separate documentation on mEDRA Query Response Message**
QueryResponseMessage/QueryResponse/Query/DOI	*type*	string	0-1	The DOI associated to the monograph
QueryResponseMessage/QueryResponse/Query/BookTitle	*match*	string	0-1	Monograph title
QueryResponseMessage/QueryResponse/Query/ISBN	*match, type*	string (10-13)	0-1	ISBN of the monograph, in ISBN-10 o ISBN-13 format without hyphens
QueryResponseMessage/QueryResponse/Query/EditionNumber	*match*	string	0-1	Edition number

Element	Attribute	Datatype	Cardinality	Notes
QueryResponseMessage/QueryResponse/Query/PublicationDate	*match*	integer between 1400 and 2200	0-1	Publication date
QueryResponseMessage/QueryResponse/Query/ComponentNumber	*match*	string	0-1	Component number
QueryResponseMessage/QueryResponse/Query/TitleOfSeries	*match*	string	0-1	Title of the series in which the monograph is published
QueryResponseMessage/QueryResponse/Query/NumberWithinSeries	*match*	string	0-1	Number within the series
QueryResponseMessage/QueryResponse/Query/ISSN	*match, type*	4 digits + hyphen (optional) + 3 digits + 1 digit or the X character	0-2	ISSN of the series in which the monograph is published
QueryResponseMessage/QueryResponse/Query/AuthorName	*match*	string	0-1	Monograph author's name. Each Query group may contain either an AuthorName element or an AuthorList group
QueryResponseMessage/QueryResponse/Query/AuthorList	*et-al*		0-1	Group of elements containing the authors list. Each Query group may contain either an AuthorName element or an AuthorList group
QueryResponseMessage/QueryResponse/Query/AuthorList/Author	*first-author*		1-10	Group of elements containing the full details of an author. The AuthorList group contains at least one Author, up to a maximum of 10
QueryResponseMessage/QueryResponse/Query/AuthorList/Author/NamesBeforeKey		string	0-1	Author's first name
QueryResponseMessage/QueryResponse/Query/AuthorList/Author/KeyNames		string	1	Author's last name
QueryResponseMessage/QueryResponse/Query/FirstPageNumber	*match*	string	0-1	Number of the first page of the monograph
Use case 3: Query Response carrying an ERROR MESSAGE (response to Metadata Query, DOI Query, Simple Text Query)				
Element	**Attribute**	**Datatype**	**Cardinality**	**Notes**
QueryResponseMessage/QueryResponse/Query	*enable-multiple-hits; key; forward-match; status; fl_count*		0-n	Group of elements containing, in each one of its occurrences, the DOI and the bibliographic metadata matching a user query (Metadata Query, DOI Query or Simple Text Query). **See separate documentation on mEDRA Query Response Message**
QueryResponseMessage/QueryResponse/Query/ReportText		string (10-5012)	0-1	Query information message (e.g. in the case of malformed query)

mEDRA Query Response Message: attributes of the Query group				
Element	**Attribute**	**Cardinality**	**Format/Values**	**Default**
Query				
	enable-multiple-hits	0-1	*subset*	
			false	(default)
			true	
	key	1	*string(1-128)*	
	status	0-1	*subset*	
			resolved	
			unresolved	
			multiresolved	
			malformed	
	fl_count	0-1	*non-negative integer*	
	forward-match	0-1	*subset*	
			false	(default)
			true	
DOI				
	type	0-1	*subset*	
			journal_title	
			journal_issue	
			journal_volume	
			journal_article	
			conference_title	
			conference_series	
			conference_paper	
			book_title	
			book_series	
			book_content	
			component	
			dissertation	
			report-paper_title	
			report-paper_series	
			report-paper_content	
			standard_title	
			standard_series	
			standard_content	
JournalTitle				
	match	0-1	*subset*	
			optional	
			fuzzy	

			exact	
JournalVolumeNumber				
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
JournalIssueNumber				
	match	0-1	*subset*	
			fuzzy	
			exact	
JournalIssueDate				
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
BookTitle				
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
ISBN				
	match	0-1	*subset*	
			optional	
			exact	
	type	1	*subset*	
			print	
			electronic	
EditionNumber				
	match	0-1	*subset*	
			optional	(default)
			fuzzy	
			exact	
PublicationDate				
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
ComponentNumber				

	match	0-1	subset	
			optional	(default)
			fuzzy	
			exact	
TitleOfSeries				
	match	0-1	subset	
			optional	
			fuzzy	
			exact	
NumberWithinSeries				
	match	0-1	subset	
			optional	
			fuzzy	
			exact	
ISSN				
	match	0-1	subset	
			optional	
			exact	
	type	0-1	subset	
			print	
			electronic	
AuthorName				
	match	0-1	subset	
			optional	
			fuzzy	
			exact	
AuthorList				
	et-al	0-1	subset	
			false	(default)
			true	
Author				
	first-author	0-1	boolean	(default: false)
FirstPageNumber				
	match	0-1	subset	
			optional	
			fuzzy	
			exact	

mEDRA Query Response Message: elements of the ForwardLinking group

This document describes the elements that may occur in the ForwardLinking group in the response message to a Cited-By Query, i.e. a query to retrieve the list of the DOIs citing a publication by submitting its DOI in input. The same xml message may contain the responses to more queries submitted in the same QueryRequestMessage. Some elements in the message response may be associated with attributes carrying additional information on the query results (see ForwardLinking attributes sheet).

Element	Attribute	Datatype	Cardinality	Notes
QueryResponseMessage/QueryResponse/ForwardLinking	doi		0-n	Group of elements containing, in each one of its occurrences, the response to a Cited-by Query, i.e.the list of the DOIs citing the DOI submitted by the user in input. **See separate documentation on mEDRA Query Response Message**
Use case 1: Query Response carrying Citing Article metadata (response to Cited-By Query)				
Element	**Attribute**	**Datatype**	**Cardinality**	**Notes**
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle	fl_count		0-n	Group of elements containing, in each one of its occurrences, the DOI and bibliographic metadata of an article citing the DOI submitted by the user a Cited-by Query
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/DOI	type	string	1	The DOI associated to the publication
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/JournalTitle	title-type, match	string	0-2	Journal title. Repeatable, in case both the journal title (attribute title-type="distinctive") and the abbreviated journal title (attribute title-type="abbreviated") are present in the message response. Note that in the latter case the match attribute will not be present
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/JournalVolumeNumber	match	string	0-1	Volume number
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/JournalIssueNumber	match	string	0-1	Journal issue number
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/JournalIssueDate	match	integer between 1400 and 2200	0-1	Journal issue publication date
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/ArticleTitle		string	0-1	Article title
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/ISSN	match, type	4 digits + hyphen (optional) + 3 digits + 1 digit or the X character	0-2	Journal ISSN. Repeatable, in case both the print and digital ISSN are present in the message response
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/AuthorList	et-al		0-1	Group of elements containing the authors list
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/AuthorList/Author	first-author		1-10	Group of elements containing the full details of an author. The AuthorList group contains at least one Author group up to a maximum of 10
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/AuthorList/Author/NamesBeforeKey		string	0-1	Author's first name
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/AuthorList/Author/KeyNames		string	1	Author's last name
QueryResponseMessage/QueryResponse/ForwardLinking/CitingArticle/FirstPageNumber	match	string	0-1	Number of the first page of the article
Use case 2: Query Response carrying Citing Monograph metadata (response to Cited-By Query)				
Element	**Attribute**	**Datatype**	**Cardinality**	**Notes**

Element	Attribute	Datatype	Cardinality	Notes
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook	*fl_count*		0-n	Group of elements containing, in each one of its occurrences, the DOI and bibliographic metadata of a monograph citing the DOI submitted by the user in the corresponding QueryRequestMessage (Cited-by Query)
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/DOI	*type*	string	1	The DOI associated to the monograph
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/BookTitle	*match*	string	0-1	Monograph title
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/ISBN	*match, type*	string (10-13)	0-1	ISBN of the monograph, in ISBN-10 o ISBN-13 format without hyphens
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/EditionNumber	*match*	string	0-1	Edition number
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/PublicationDate	*match*	integer between 1400 and 2200	0-1	Publication date
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/ComponentNumber	*match*	string	0-1	Component number
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/TitleOfSeries	*match*	string	0-1	Title of the series in which the monograph is published
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/NumberWithinSeries	*match*	string	0-1	Number within the series
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/ISSN	*match, type*	4 digits + hyphen (optional) + 3 digits + 1 digit or the X character	0-1	ISSN of the series in which the monograph is published
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/AuthorList	*et-al*		0-1	Group of elements containing the authors list
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/AuthorList/Author	*first-author*		1-10	Group of elements containing the full details of an author. The AuthorList group contains at least one Author group up to a maximum of 10
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/AuthorList/Author/NamesBeforeKey		string	0-1	Author's first name
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/AuthorList/Author/KeyNames		string	1	Author's last name
QueryResponseMessage/QueryResponse/ForwardLinking/CitingBook/FirstPageNumber	*match*	string	0-1	Number of the first page of the monograph

Use case 3: Query Response carrying an ERROR MESSAGE (response to Cited-By Query)

Element	Attribute	Datatype	Cardinality	Notes
QueryResponseMessage/QueryResponse/ForwardLinking/ReportText		string (10-5012)	0-1	Query information message (e.g. in the case of malformed query)

mEDRA Query Response Message: attributes of the ForwardLinking group				
Element	**Attribute**	**Cardinality**	**Format/Values**	**Default**
ForwardLinking				
	doi	1	*string*	
CitingArticle				
	fl_count	0-1	*non-negative integer*	
CitingBook				
	fl_count	0-1	*non-negative integer*	
DOI				
	type	0-1	*subset*	
			journal_title	
			journal_issue	
			journal_volume	
			journal_article	
			conference_title	
			conference_series	
			conference_paper	
			book_title	
			book_series	
			book_content	
			component	
			dissertation	
			report-paper_title	
			report-paper_series	
			report-paper_content	
			standard_title	
			standard_series	
			standard_content	
JournalTitle				
	title-type	0-1	*subset*	
			distinctive	
			abbreviated	
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
JournalVolumeNumber				
	match	0-1	*subset*	
			optional	
			fuzzy	

			exact	
JournalIssueNumber				
	match	0-1	*subset*	
			fuzzy	
			exact	
JournalIssueDate				
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
BookTitle				
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
ISBN				
	match	0-1	*subset*	
			optional	
			exact	
	type	1	*subset*	
			print	
			electronic	
EditionNumber				
	match	0-1	*subset*	
			optional	(default)
			fuzzy	
			exact	
PublicationDate				
	match	0-1	*subset*	
			optional	
			fuzzy	
			exact	
ComponentNumber				
	match	0-1	*subset*	
			optional	(default)
			fuzzy	
			exact	
TitleOfSeries				

	match	0-1	subset	
			optional	
			fuzzy	
			exact	
NumberWithinSeries				
	match	0-1	subset	
			optional	
			fuzzy	
			exact	
ISSN				
	match	0-1	subset	
			optional	
			exact	
	type	0-1	subset	
			print	
			electronic	
AuthorList				
	et-al	0-1	subset	
			false	(default)
			true	
Author				
	first-author	0-1	boolean	(default: false)
FirstPageNumber				
	match	0-1	subset	
			optional	
			fuzzy	
			exact	