

856 ELECTRONIC LOCATION AND ACCESS

Field Definition and Scope

This field contains the information required to locate the electronic resource described by the record and/or reference files related to the described resource such as thumbnails and content pages. The information identifies the electronic location containing the resource or from which it is available. It also contains information to retrieve the resource by the access method identified in the first indicator position. The information contained in this field is sufficient to allow for the electronic transfer of a file, subscription to an electronic journal, or logon to an electronic resource. In some cases, only unique data elements are recorded which allow the user to access a locator table on a remote host containing the remaining information needed to access the resource.

It can be used to generate the ISBD Notes relating to Mode of Access (Electronic Resources).

For electronic resources: if 337 is not used, then 856 must be present.

Subfields & Occurrence

Field/Subfield	Field/Subfield Name	Repeatability	Occurrence
856	ELECTRONIC LOCATION AND ACCESS	R	MA
a	Host Name	R	O
b	Access Number	R	O
c	Compression Information	R	O
d	Path	R	O
e	Date and Hour of Consultation and Access	NR	O
f	Electronic Name	R	O
h	Processor of Request	NR	O
i	Instruction	R	O
j	Bits per Second	NR	O
k	Password	NR	O
l	Logon/Login	NR	O
m	Contact for Access Assistance	R	O
n	Name of Location of Host in Subfield \$a	NR	O
o	Operating System	NR	O
p	Port	NR	O
q	Electronic Format Type	R	O
r	Settings	NR	O
s	File Size	R	O
t	Terminal Emulation	R	O
u	Uniform Resource Identifier (URI)	NR	O
v	Hours Access Method Available	R	O
w	Record Identifier	R	O
x	Non-Public Note	R	O
y	Access Method	NR	O
z	Public Note	R	O
2	Link Text	R	O

Indicators

Indicator	Value	Description
1		Access Method
	#	No information provided
	0	Email
	1	FTP
	2	Remote login (Telnet)

	3	Dial-up
	4	HTTP
	7	Method specified in subfield \$y
2		Completeness of the Accessible Resource
	#	No information provided
	0	The field provides details to access the described resource
	1	The field provides details to access a thumbnail of the described resource
	2	The field provides details to access the title page, table of contents, and/or other front matter of the described resource

Subfields Description

\$a Host Name

Repeatable.

\$b Access Number

The access number associated with a host. It can contain the Internet Protocol (IP) numeric address if the resource is an Internet resource, or a telephone number if dial-up access is provided through a telephone line. This data may change frequently and may be generated by the system, rather than statically stored. Subfield \$b may be repeated if all the other information in the field applies. A telephone number is recorded as follows: [country code]-[area code]-[telephone number]. Example: 49-69-15251140 (a number in Frankfurt, Germany); 1-202-7076237 (a number in the U.S., Washington, D.C.). If an extension is applicable, include it after the telephone number preceded by "x". Example: 1-703-3589800x515 (telephone number with extension). Repeatable.

\$c Compression Information

Repeatable.

\$d Path

Repeatable.

\$e Date and Hour of Consultation and Access

The time, in the form YYYYMMDDHHMM, at which the electronic resource was last accessed. Not repeatable.

\$f Electronic Name

The electronic name of a file as it exists in the directory/subdirectory indicated in subfield \$d on the host identified in subfield \$a. Subfield \$f may be repeated if a single logical file has been divided into parts and stored under different names. In this case, the separate parts should constitute a single bibliographic resource. In all other cases, a file that may be retrieved under different filenames contains multiple occurrences of field 856, each with its corresponding electronic name in subfield \$f. A filename may include wildcard characters (e.g., "*" or "?") if applicable, with a note in subfield \$z explaining how files are named. NOTE: Filenames may be case sensitive for some systems. This subfield may also contain the name of the electronic publication or conference. Repeatable.

\$h Processor of Request

The username, or processor of the request; generally the data which precedes the at sign ("@" in the host address. Not repeatable.

\$i Instruction

An instruction or command needed for the remote host to process a request. Repeatable.

\$j Bits per Second

The lowest and highest number of bits (binary units) of data that can be transmitted per second when connected to a host. The syntax for recording the number of bits per second (BPS) should be: [Lowest

BPS]-[Highest BPS]. If only lowest given: [Lowest BPS]-. If only highest given: -[Highest BPS]. Not repeatable.

\$k Password

Used to record general-use passwords, and should not contain passwords requiring security. Not repeatable.

\$l Logon/Login

General-use logon/login strings which do not require special security. Not repeatable.

\$m Contact for Access Assistance

Repeatable.

\$n Name of Location of Host in Subfield \$a

Not repeatable.

\$o Operating System

For information, the operating system used by the host specified in subfield \$a is indicated in this subfield. Not repeatable.

\$p Port

The portion of the address that identifies a process or service in the host. Not repeatable.

\$q Electronic Format Type

Contains an identification of the electronic format type, which determines how data are transferred through a network. Usually, a text file can be transferred as character data which generally restricts the text to characters in the ASCII (American National Standard Code for Information Interchange) character set (i.e., the basic Latin alphabet, digits 0-9, a few special characters, and most punctuation marks). Text files with characters outside of the ASCII set, or non-textual data (e.g., computer programs, image data) must be transferred using another file transfer mode, usually binary mode. Electronic format type may be taken from lists such as registered Internet Media types (MIME types). Repeatable if the electronic resource is available in more than one format under the same location or URL ([EX 30](#)).

\$r Settings

The settings used for transferring data. Included in settings are:

- 1) Number Data Bits (the number of bits per character);
- 2) Number Stop Bits (the number of bits to signal the end of a byte); and
- 3) Parity (the parity checking technique used). The syntax of these elements is: [Parity]-[Number of Data Bits]-[Number of Stop Bits]. If only the parity is given, the other elements of settings and their related hyphens are omitted (i.e., [Parity]). If one of the other two elements is given, the hyphen for the missing element is recorded in its proper position (i.e., [Parity]--[Number of Stop Bits] or [Parity]-[Number of Data Bits]-). The values for parity are: O (Odd), E (Even), N (None), S (Space), and M (Mark). Not repeatable.

\$s File Size

The size of the file as stored under the filename indicated in subfield \$f. It is generally expressed in terms of 8-bit bytes (octets). It may be repeated in cases where the filename is repeated and directly follows the subfield \$f to which it applies. This information is not given for journals, since field 856 relates to the entire title, not to particular issues. Repeatable.

\$t Terminal Emulation

Repeatable.

\$u Uniform Resource Identifier (URI)

A Uniform Resource Identifier (URI), such as a URL (Uniform Resource Locator) or URN (Uniform Resource Name), serves as a standardized string that identifies a resource and provides electronic access via internet protocols. This allows for automated retrieval or interaction with the resource in a consistent manner.

Subfield \$u may be used instead of those separate subfields or in addition to them. The field is repeated if more than one URL needs to be recorded. Not repeatable.

\$v Hours Access Method Available

The hours that access to an electronic resource is available at the location indicated in this field. Repeatable.

\$w Record Identifier

Repeatable.

\$x Non-Public Note

Repeatable.

\$y Access Method

The access method when the first indicator position contains value 7 (Method specified in subfield \$y). This subfield may include access methods other than the main TCP/IP protocols specified in the first indicator. The data in this subfield corresponds with the access schemes specified in Uniform Resource Locators (URL) (RFC 1738), a product of the Uniform Resource Identifiers Working Group of the IETF. The Internet Assigned Numbers Authority (IANA) maintains a registry of URL schemes and defines the syntax and use of new schemes. Not repeatable.

\$z Public Note

Repeatable.

\$2 Link Text

Used for display in place of the URL in subfield \$u (Uniform Resource Identifier (URI)). When subfield \$2 is present, applications should use the contents of it as the link instead of subfield \$u linking to the destination in subfield \$u. Repeatable.

Related Fields

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Examples

EX 1
856 1#\$awuarchive.wustl.edu\$cdecompress with PKUNZIP.exe \$d/mirrors2/win3/games\$fatmoids.zip\$xcannot verify because of transfer difficulty
EX 2
856 1#\$uftp://path.net/pub/docs/urn2urc.ps 856 4#\$u http://lcweb.loc.gov/catdir/semdigdocs/seminar.html
EX 3
856 2#\$apac.carl.org\$b192.54.81.128\$mCARL Situation Room\$mhhelp@CARL.org\$nCARL Systems Inc., Denver, CO\$v24 hours
EX 4
856 3#\$alocis.loc.gov\$b140.147.254.3\$mlonline@loc.gov\$t3270\$line mode (e.g., vt100)\$vM-F 6:00 a.m.-21:30 p.m. USA EST, Sat. 8:30-17:00 USA EST, Sun. 13:00-17:00 USA EST

EX 5
856 4# http://lcweb.loc.gov/catdir/toc/93-3471.html
EX 6
856 4# http://www.gpntb.ru/win/inter-events/crimea94/report/prog_01r.html \$s14519 bytes\$v24
EX 7
856 2#\$maine.maine.edu\$nUniversity of Maine\$t3270
EX 8
856 1#\$awuarchive.wustl.edu\$dmirrors/info-mac/util\$fcolor-system-icons.hqx\$s16874 bytes
8560# \$akeptvm.bitnet\$facadlist file1\$s34,989 bytes\$facadlist file2\$s32,876 bytes\$facadlist file3\$s23987 bytes
EX 9
856 2#\$agopac.berkeley.edu\$mRoy Tennant
EX 10
856 3#b1-202-7072316\$j2400-9600\$nLibrary of Congress, Washington, DC\$oUNIX\$rE-7-1
\$tvt100\$zRequires logon and password
Dial-up numbers with related settings for terminal emulation
EX 11
856 1#\$aarchive.cis.ohio-state.edu\$dpub/comp.sources.Unix/volume 10\$fcomobj.lisp.10.Z\$qbinary
EX 12
856 1#\$aunmvm.bitnet\$lanonymous
EX 13
856 1#\$aseq1.loc.gov\$d/pub/soviet.archive\$fk1famine.bkg\$nLibrary of Congress, Washington, D.C.\$oUNIX
EX 14
856 2#\$amadlab.sprl.umich.edu\$nUniversity of Michigan Weather Underground \$p3000
EX 15
856 2#\$apucc.princeton.edu\$nPrinceton University, Princeton, N.J.
EX 16
856 0#\$auccvma.bitnet\$fIR-L\$hListserv\$isubscribe
EX 17
856 3#b1-202-7072316\$j2400-9600\$nLibrary of Congress, Washington, DC\$oUNIX \$rE-7-1
EX 18
856 1#\$aharvarda.harvard.edu\$kguest
EX 19
856 0#\$auicvm.bitnet\$fAN2
EX 20
856 1#\$awuarchive.wustl.edu\$dmirrors/info-mac/util\$fcolor-system-icons.hqx
EX 21

856 4#	\$awww.gpntb.ru\$b193.233.14.7\$dwin/dewey\$fMoscow.Russia.GPNTB,Mikhail Goncharov\$oWINDOWS-NT\$s2048 bytes\$qtext/WINI-1251\$v24
EX 22	
856 2#	\$aanthrax.micro.umn.edu\$b128.101.95.23
	Host name and Internet Protocol numeric address
EX 23	
856 1#	\$awuarchive.wustl.edu\$d/aai/admin/CAT.games\$fmac-qubic.22.hqx
EX 24	
856 4#	\$u http://www.cdc.gov/ncidod/EID/eid.htm \$qtext/html
EX 25	
856 4#	\$u http://www.nlc-bnc.ca/ifa/VI/3/p1996-1/concise.pdf \$cRequires Adobe Acrobat Reader
EX 26	
856 4#	\$u http://lcweb.loc.gov/copyright/title/17 \$2United States Code, Title 17
	The display can be configured to present the label text in \$2 as a clickable link, rather than the rather meaningless URL in \$u.
EX 27	
856 4#	\$u http://www.bl.uk/services/bsds/nbs/interface/wface01.html \$2Interface (Web Version)
EX 28	
200 1#	\$aISMN\$bElectronic resource\$IInternational standard music number\$eusers' manual\$f[International ISMN agency]
856 4#	\$qhtml\$u http://www.ismn-international.org/manual.html
856 4#	\$qpdf\$u http://www.ismn-international.org/manual.pdf
	The <i>ISMN users' manual</i> is available in both html and pdf formats: field 856 is repeated within the record, because there is a distinct URL for each format.
EX 29	
200 1#	\$aFado racionalista\$ebonita collecção de cantigas oferecidas aos livres pensadores...\$fJosé Marques Guerreiro Wan-Dyck
856 41	\$u http://purl.pt/6571
856 40	\$qpdf\$u http://purl.pt/6571/3/hg-11038-v_PDF/hg-11038-v_PDF_01-B-R0150/hg-11038-v_0000_rosto-42_t01-B-R0150.pdf \$2Cópia pública, 1 ficheiro pdf
EX 30	
200 1#	\$aTransatlantica\$erevue d'études américaines\$fAssociation française d'études américaines\$g[dir. publ. Michel Granger]\$g[réd. en chef Jean Kempf]
856 40	\$u http://transatlantica.revues.org/ \$e20140409\$qHTML\$qPDF
	The serial entitled <i>Transatlantica</i> is available both in html and pdf formats under the same URL: as there is no reason for \$u to be repeated, only one field 856 is used while subfield \$q is repeated to record each format.

History

1998	New field.
2000	Field issued/re-issued with corrections/additions.
2002	Field issued/re-issued with corrections/additions.
2005	Field issued/re-issued with corrections/additions.
2012	Indicator 2 added.
2016	Change subfield \$q repeatability.

2024	Update \$u. Added section Related Fields.
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