

# **NASA CASI Electronic Data Transfer Format**

## **March 8, 1996**

### Introduction

This document details the format of bibliographic citations provided electronically by the NASA Center for AeroSpace Information. It reflects the changes in the NASA CASI system based on the modernization project completed in March, 1996.

### File Content

The content of the file received is created by a RECONplus search strategy based on the data exchange agreement in effect with the NASA STI program. Please reference that agreement for information concerning the records that are included in the file.

### Character Set

The data are provided in a flat ASCII file. No photocomposition codes are included in the file. The | delimiter does not occur in the text of the data. However, the <, >, (, and ) characters may occur

### Record Content

The MARC-based tagging system has been used as part of NASA CASI's move toward standard rather than custom built approaches. Data have been assigned to fields most compatible with the intent of the tag selected. In some cases, locally defined fields, not used by MARC have been assigned to elements which need special representation. Subfields may appear which are not in the USMARC Standard. There is no attempt to adhere to the USMARC standards for field domains. It should also be noted that there has been no attempt to remain current with the changes to the MARC Standard, since the development of the new NASA format in 1993.

The fields provided are further documented in the "Data Elements for NASA CASI Electronic Data Transfer," which is available from the NASA CASI Helpdesk. Not all fields appear in every record. As noted in the document, depending on the time period you are receiving, some fields are not available for records converted from the previous NASA STIMS database. In addition to a definition, brief information has been provided concerning the previous STIMS tag value used

for this information and the conversion logic used by NASA CASI to reformat the data.

Fields that are blank for a particular record do not appear in the data transfer record.

Lengthy text fields such as the abstract are not in paragraph format and do not have internal carriage returns or line feeds.

### Data Description

Field tags are based on a logical MARC structure with a heavy dependence on locally defined fields to accommodate data required by NASA in a segmented format. Each field is preceded by a < followed by a D, the field tag and subfield, the three-digit occurrence indicator enclosed in parentheses, and a > end tag. The end tag is followed immediately by the data. The end of the data for the field is identified by the next <D field tag value or by the end of the file.

Each record begins with the tag <D090a(000)>. This is the Document ID Number, which is a mandatory field.

The tags are generally presented numerically by MARC tag and then alphabetically by the subfield. However, in some cases the MARC tags within component fields are presented out of sequence in order to provide a more logical format for direct output of the data as if it were a note field.

### Component Fields

Component fields have been provided to connect elements that are related, especially if there are multiple occurrences of these elements. For example, the author component is composed of the author name, the author affiliation, the author country and the relationship to the document (editor, inventor, etc.). The tag for a component field is composed of the individual field tags in the order in which they appear in the component field. Individual elements within a component field are separated by | delimiters. There is no space between the data and the delimiter. The last element does not end in a delimiter. Subfields in component fields may contain blanks indicating the lack of content in that subfield for that occurrence.

### Multiple Occurrences

Information concerning the multiplicity of occurrence of a field tag is contained within the field tag. Enclosed in parentheses is the number of the occurrence. Fields that are non-repeatable are indicated by a (000) occurrence tag. Multiple occurrences begin with (001). Occurrences are

presented in numerical order. The field tag is repeated with each occurrence. For example, the format for multiple occurrences of the report number field is <D088a(001)>Report Number 1<D088a(002)>Report Number 2<D088a(003)>Report Number 3.

MARC indicators are included where they provide meaningful information concerning the related data element. The indicator value precedes the data element/occurrence to which it applies and is treated as a separate field with a tag ending in II. For example, the Bibliographic History Note (D503a) has an indicator value preceding it. Field D503II contains the indicator which specifies the note which follows as either a translation or a reprint note.

### Authority Files

The NASA Thesaurus and the NASA Organization Name Authority File (NONA) are available electronically upon request. The NASA Thesaurus applies to the fields related to NASA controlled terms. NONA applies to all fields that contain organization names and locations.

### Media

Bibliographic records are available on 8mm cartridge and via FTP.

### Contact:

NASA CASI Helpdesk  
800 Elkridge Landing Rd.  
Linthicum Heights, MD USA 21090

Phone: (301)621-0390  
Fax: (301)621-0134  
E-mail: help@sti.nasa.gov

## APPENDIX I

### SCHEMATIC FOR NASA ELECTRONIC DATA EXCHANGE

March 8, 1996

<D090a(000)>document ID number<D013a, D013d(NNN)>patent/application number | filed date<D013o(000)>NASA legal case number<D017c(000)>copyright indicator<D017n(NNN)>copyright note<D020a(NNN)>ISBN and qualifying information<D022a(NNN)>ISSN<D035z(NNN)>previous control number<D037b, D037c, D037f(NNN)>source of availability | price or price code | availability format<D037g(NNN)>availability subformat<D037k(NNN)>unavailability reason<D037n(NNN)>availability note<D037o(NNN)>number of diskettes<D039a(000)>record status<D039d(000)>actual deletion date<D039e(NNN)>deletion note<D039g(000)>date of last transaction<D039h(000)>date of creation<D041a(NNN)>document language<D041b(NNN)>summary language<D041h(NNN)>original language<D0722(NNN)>source of subject category code<D072a, D072b(NNN)>subject category | spelled-out subject category<D088a(NNN)>report number<D090c(000)>nonprint number<D090d(000)>file segmentation code<D090g(000)>Tech Brief number - Tech Briefs only<D245a(000)>title<D245d(000)>title extension<D245e(000)>title supplement<D245g(000)>title security classification<D245n(000)>number of part<D245p(000)>name of part<D246a(000)>foreign title<D246n(000)>foreign number of part/section<D246p(000)>foreign name of part/section<D246y(000)>language of foreign title<D260a(NNN)>place of publication<D260b(NNN)>publisher<D260c(000)>numeric date of publication<D260d(000)>textual publication date<D260g(000)>publication year<D260h(000)>date of publication type<D260z(NNN)>country of publication<D300a(000)>total pages<D300b(NNN)>other physical characteristics<D300e(NNN)>accompanying material<D355a(000)>security classification<D355d(000)>security class release date (projected)<D355e(000)>authorizing agency<D359a(000)>restriction on access terms<D359b(000)>authorizing agency<D359c(NNN)>authorized users<D359d(000)>distribution limitation release date<D440a(000)>series title<D440n(NNN)>number of series<D440p(000)>part of series<D440v(000)>volume of series<D500a(NNN)>general note<D503II, D503a(NNN)>bibliographic note indicator | bibliographic note<D509a(NNN)>document type<D513a(000)>type of progress report<D513b(000)>report period covered<D520b, D520e(000)>abstract | language<D520q(000)>abstract qualification<D520z(000)>abstract source<D536b(NNN)>contract number<D536c(NNN)>grant number<D536d(NNN)>project,task,work unit#<D536f(000)>contract start date - contracts only<D536g(000)>contract date range - contracts only<D538a(000)>technical details note<D541a(000)>contributing organization<D541c(000)>receipt type<D541d(NNN)>date received for processing<D541e(000)>non-CASI record number<D541g(000)>source of pre-processing<D541o(000)>format received<D599a(NNN)>author note field - Tech Briefs

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organization | subordinate unit of author affiliation | author affiliation location | author affiliation  
country | org. name code for author affiliation<D700j(000)>incomplete list of authors<D709a,  
D709b, D709e contracts only (NNN)>responsible individual | responsible individual's phone  
number | responsible individual's relationship to document<D711a, D711n, D711c, D711z,  
D711f, D711d(NNN)>meeting name| number of part/section|meeting location|country|textual  
meeting date| meeting start date<D711g(NNN)>miscellaneous meeting  
information<D711m(000)>language of non-English meeting name<D719g, D729g, D719l,  
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location | meeting sponsor country | meeting sponsor type<D719c, D729c, D719d, D719j, D719v,  
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organization source | organization source location | organization source country | organization  
name code | organization source type<D773t, D773d, D773i, D773p, D773r, D773v(000)>title |  
host item date | host item page range | report number of host item | host item  
volume<D773w(000)>host item control number/accession number<D787f, D787h, D787e,  
D787g, D787t, D787w(NNN)>analytic count|analytic sequence|related accession number |  
relationship information | title of related document | related control number