

STANDARD DATA INTERCHANGE FORMAT  
Ver. 3.0

APRIL 28, 1998

## TABLE OF CONTENTS

1 INTRODUCTION.....	4
2 FORMAT DESIGN.....	4
3 MEET PYRAMID.....	6
4 RECORD TIMES PYRAMID.....	7
5 TIME STANDARDS PYRAMID.....	7
6 LSC REGISTRATION PYRAMID.....	8
7 A0 -- FILE DESCRIPTION RECORD.....	8
8 B1 -- MEET RECORD.....	9
9 B2 -- MEET HOST RECORD.....	10
10 C1 -- TEAM ID RECORD.....	11
11 C2 -- TEAM ENTRY RECORD.....	12
12 D0 -- INDIVIDUAL EVENT RECORD.....	13
13 D1 -- INDIVIDUAL ADMINISTRATIVE RECORD.....	15
14 D2 -- INDIVIDUAL CONTACT RECORD.....	16
15 D3 -- INDIVIDUAL INFORMATION RECORD.....	17
16 E0 -- RELAY EVENT RECORD.....	18
17 F0 -- RELAY NAME RECORD.....	19
18 G0 -- SPLITS RECORD.....	21
19 J0 -- MEET QUALIFYING TIMES RECORD.....	22
20 J1 -- NATIONAL AGE GROUP TIMES RECORD.....	23
21 J2 -- USS MOTIVATIONAL TIMES RECORD.....	24
22 Z0 -- FILE TERMINATOR RECORD.....	25
23 CODE TABLES.....	26
ORG CODE 001 ORGANIZATION CODE.....	26
LSC CODE 002 LOCAL SWIMMING COMMITTEE CODE.....	26
FILE CODE 003 FILE/TRANSMISSION TYPE CODE.....	27
COUNTRY CODE 004 FINA COUNTRY CODE (EFFECTIVE 1993).....	27
MEET CODE 005 MEET TYPE CODE.....	29
TEAM CODE 006 LSC AND TEAM CODE.....	29
REGION CODE 007 REGION CODE.....	29
USS# CODE 008 USS MEMBER NUMBER CODE.....	29
CITIZEN CODE 009 CITIZENSHIP CODE.....	29
SEX CODE 010 SWIMMER SEX CODE.....	30
EVENT SEX CODE 011 SEX OF EVENT CODE.....	30
STROKE CODE 012 EVENT STROKE CODE.....	30
COURSE CODE 013 COURSE/STATUS CODE.....	30
EVENT TIME CLASS CODE 014 EVENT TIME CLASS CODE.....	30
SPLIT CODE 015 SPLIT CODE.....	31
ATTACH CODE 016 ATTACHED CODE.....	31
ZONE CODE 017 ZONE CODE.....	31

STANDARD DATA INTERCHANGE FORMAT

---

COLOR CODE 018 COLOR CODE.....31  
PRELIMS/FINALS CODE 019 PRELIMS/FINALS CODE.....31  
TIME CODE 020 TIME EXPLANATION CODE.....31  
MEMBER CODE 021 MEMBERSHIP TRANSACTION TYPE.....31  
SEASON CODE 022.....32  
ORDER CODE 024 RELAY LEG ORDER.....32  
EVENT AGE CODE 025.....32  
ETHNICITY CODE 026.....32  
24 CODING EXAMPLES.....33

## 1 INTRODUCTION

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United States Swimming has matured as an organization and expanded services to individuals and clubs. To support this expansion, USS has developed a computer plan. One component is a standard interchange format for technical data. Swimming data must be transmitted among the clubs, local swimming committees (LSCs), and the USS headquarters office. Exchanging meet results is one example, where data from a host club is distributed to swimmers and clubs using diskettes or modems. Some LSCs are compiling swimmer statistics and would retype the data from printed sheets if electronic transmission were not available.

A standard format promotes easy exchange of data and the development of new computer programs and services. The goal is to preserve the valuable efforts of our volunteers. To develop this standard, United States Swimming established an ad-hoc committee to review existing needs and prepare a draft design. A representative from US Masters Swimming and a coach familiar with high school and college swimming requirements contributed significantly to the final design. The design is intended to allow all aquatic sports organizations to use the same standard. New records can be added and new codes or fields can be added to existing records.

The format incorporates a modular design. Each file would combine the records into an order that corresponds to the type of data to be transmitted. Meet entry records would have a specific order. Time standards would have another order. When specific record types are not needed, those records can be omitted. Certain fields were declared to be "mandatory" for adequate identification of the data and to preserve unique identifiers.

## 2 FORMAT DESIGN

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**SDI files have a SD3 extension. Example: meetrslt.sd3.**

The basic design of the USS Interchange Format is a fixed record length for all records. Data is grouped together by type of information, and records are linked to each other by common fields or by record order. The records comprise a single type of information, e.g., one record for meet host data. The file structure has an implied order of less frequent data preceding more frequent data, i.e., one meet, multiple teams, multiple athletes per team, etc.

Each record is one-hundred sixty-two (162) bytes in length, with the last two bytes a carriage return and line feed. Byte 161 is an ASCII 13 and byte 162 is an ASCII 10. Each record has a two byte record identifier.

### **Coding conventions**

The first byte of the first record **MUST** be the first byte of the file, and **MUST** begin an A0 record.

Fields which are not used should be blank filled.

"No blanks" means that there may not be ANY blanks ANYWHERE in the field; "non-blank" means that there **MAY** be blanks in the field, but there **MUST** be **AT LEAST ONE** non-blank character as well.

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STANDARD DATA INTERCHANGE FORMAT

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There are two levels of mandatory fields. M1 - must be included for the record to be usefull. M2 - an exceptions report must be generated for records containing blank M2 fields. M2 fields are necessary for the records to be processed by USS. M1 fields require a non-blank entry.

All undefined space is named "future use" and MUST be blank until defined explicitly.

The first two bytes of a record are always CONST, and are case sensitive.

All ALPHA fields are left justified\* and can contain any letters, numbers and printable symbols. Users may elect to have alphabetic data in upper and lower case or upper case only. \*Alpha fields containing only numeric data should be right justified.

All INT data are stored as ASCII digits and should be right justified and blank filled.

All LOGICAL fields must contain a upper case 'T' an upper case 'F' or a blank.

DEC numeric values are also ASCII digits and are right justified and blank filled. An optional decimal may be used if fractional values occur.

PHONE fields can be formatted in any manner that maintains the integrity of the number.

All DATE fields have the format MMDDYYYY where MM is the month, DD is the day, and YYYY is the year. If a date is supplied, it must not have ANY blanks -- zero-fill each portion of the date.

CODE fields must match EXACTLY when "table checked", and ARE case sensitive. The user should request new codes if required.

The term "table checked" refers to the tables in the back of the SDIF document, not a file supplied by U.S. Swimming.

USPS designates U.S. Postal Service state abbreviations andshould be capitalized.

POSTAL CODES may be left or right justified, but should include leading zeroes where defined (for example: a Vermont ZIP code of 05452).

All TIME fields MUST match one of the following formats:

1. All blanks.
2. Have the format mm:ss.ss where mm is the minutes value and ss.ss is the seconds value to hundredths. The third byte must be a colon or a blank, and the sixth byte must be a period. If a blank appears anywhere in this format, everything to the left must also be blank.
3. TIME Code 020, left-justified and blank-filled.

The USSNUM format consists of: date of birth + first 3 lettersof legal first name + middle initial + first 4 letters of last name. In the event that there is no middle initial or not enough letters in the first or last name to fill the field, an asterisk will be used. Special characters are removed.

Examples:	Catherine A. Durance	= 011553CATADURA
	Cy V. Young	= 091879CY*VYOUN
	Thomas Chu	= 020981THO*CHU*
	Ty Lee	= 011873TY**LEE*
	Dave T. O'Neil	= 030367DAVTONEI

If a time field is used, then the COURSE/STATUS code field immediately following (if present) must be entered also. When meets are timed finals only, the swim time should be entered in the Finals Time field.

A NAME type must be in the following format: last name followed by a comma and a space, followed by first name and an optional space and middle initial. Example: O'Neil, John Q

### 3 MEET PYRAMID

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A0-File description rec	first record in file, contains data on the file itself and identifies the vendor software.
B1-Meet rec	one per file, contains data on type of meet, location, dates of competition.
B2-Meet host rec	one or more per meet, contains meet host contact information
C1-Team ID rec	one per team, contains data on team name, code, address.
C2-Team entry rec	one per team, contains coach info plus stats on other records to follow for that team.
D0-Ind. event rec	one per splash, contains data on athlete, event, stroke and distance, times, places and lanes.
D3-Ind. Info rec	one per swimmer, a swimmer with multiple D0 records will have one D3 record following his/her first D0 record, contains new USS# and preferred first name.
G0-Split rec	one or more per "D0", contains data on athlete name, ID, event ID, split time and interval.
E0-Relay event rec	one per relay entry, contains data on relay event, team, times, places and lanes.
F0-Relay name rec	four or more per "E0", contains data on the athlete name, ID, time, split, and session.
D3-Ind. Info rec	one per "F0".

G0-Split rec	one or more per "E0"
Z0-File terminator rec	one per file, contains statistics and text information.

At each indented level, the file may have multiple entries to transmit the data in a logical sequence. The order of the records may vary depending on the user's needs. Some records have limited data within the record, such as one submitted for meet entry. The same record would have more data added as the swimmer completes the event. New records would be added such as split records. Relay name records could be edited for a revised order of swimmers.

#### **4 RECORD TIMES PYRAMID**

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To transmit Top 16 or other record times, the user may submit an A0 record, one or more D0 records, and a Z0 record. The D0 records may be followed by G0 split records if needed. For Top 16 only, multiple meets are allowed.

A0-File description rec	first record in file, contains data on the file itself and identifies the vendor software.
D0-Individual Event Rec	one per time achieved, contains swimmer ID, team, prelims/finals times.
D3-Individual Info Rec	one per time achieved, contains new USS# and preferred first name.
G0-Split rec	one or more per "D0", contains data on athlete name, ID, event D, split time and interval.
Z0-File terminator rec	one per file, contains statistics and text information.

#### **5 TIME STANDARDS PYRAMID**

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To transmit time standards, the user may submit an A0 record, one or more J0, J1, or J2 records, and a Z0 record.

A0-File description rec	first record in file, contains data on the file itself and identifies the vendor software.
J0-Meet Qual rec	one per event, contains times for all pool types.
J1-NAG Qual rec	one per event and pool type, contains times for all levels AAAA through B.

J2-Motivation Qual rec	one per event and level, contains times for SCY and LCM.
Z0-File terminator rec	one per file, contains statistics and text information.

## 6 LSC REGISTRATION PYRAMID

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To transmit membership registration data to the LSC, the user may submit an A0 record, one C1 record, one D1 and one D2 record per swimmer, and a Z0 record.

A0-File description rec	first record in file, contains data on the file itself and identifies the vendor software.
C1-TeamID rec	one per file, contains data on team name, code, address.
D1-Individ. Admin. rec	one per swimmer, contains swimmer info
D2-Individ. Contact rec	one per swimmer, contains remaining swimmer info
D3-Individ. Info rec	one per swimmer, contains new USS# and preferred first name.
Z0-File terminator rec	one per file, contains statistics and text information.

## 7 A0 -- FILE DESCRIPTION RECORD

---

*Purpose: Identify the file and the type of data to be transmitted. Contact person and phone number included to assist with use of information on the file.*

This record is mandatory for each transfer of data within this file structure. Each file begins with this record and each file has only one record of this type.

start/ length	Mand	Type	Description
1/2	M1*	CONST	"A0"
3/1	M2*	CODE	ORG Code 001, table checked
4/8	ALPHA		SDIF version number (same format as the version number from the title page)



STANDARD DATA INTERCHANGE FORMAT

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12/2	M1*	CODE	FILE Code 003, table checked
14/30			future use
44/20	*	ALPHA	software name
64/10	*	ALPHA	software version
74/20	M1*	ALPHA	contact name (person supplying or sending data)
94/12	M1*	PHONE	contact phone (area code and phone number of contact name in 74/20)
106/8	M1*	DATE	file creation or update
114/42			future use
156/2		ALPHA	submitted by LSC - for Top 16
158/3			future use

\* required field for submission of registration data to LSC

## 8 B1 -- MEET RECORD

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*Purpose: Identify the meet name, address, and dates.*

This record is used to identify the meet name and address. The meet name is required, plus the city, state, meet type, start and end dates. Additional fields provide for the street address, postal code and country code. Each file may only have one record of this type.

start/ length	Mand	Type	Description
-----			
1/2	M1	CONST	"B1"
3/1	M2	CODE	ORG Code 001, table checked
4/8			future use
12/30	M1	ALPHA	meet name
42/22		ALPHA	meet address line one
64/22		ALPHA	meet address line two
86/20	M2	ALPHA	meet city

STANDARD DATA INTERCHANGE FORMAT

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106/2	M2	USPS	meet state
108/10		ALPHA	Postal Code, meet zip or foreign code
118/3		CODE	COUNTRY Code 004, table checked
121/1	M2	CODE	MEET Code 005, table checked
122/8	M1	DATE	meet start
130/8	M2	DATE	meet end
138/4		INT	altitude of pool in feet above sea level
142/8			future use
150/1		CODE	COURSE Code 013, table checked, default course set up in exporting software
151/10			future use

## 9 B2 -- MEET HOST RECORD

---

*Purpose: Identify the meet host or hosts, and host address.*

This record is used to identify the meet host or hosts and the host address. The meet host name is required. Additional fields provide for the street address, city, state, postal code, country code and phone number.

start/ length	Mand	Type	Description
1/2	M1	CONST	"B2"
3/1	M2	CODE	ORG Code 001, table checked
4/8			future use
12/30	M2	ALPHA	meet host name
42/22		ALPHA	meet address line one
64/22		ALPHA	meet address line two
86/20		ALPHA	meet city
106/2		USPS	meet state
108/10		ALPHA	Postal Code, meet zip or foreign code

118/3	CODE	COUNTRY Code 004, table checked
121/12	PHONE	meet host phone
133/28		future use

## 10 C1 -- TEAM ID RECORD

---

*Purpose: Identify the team name, code and address. Region code defines USS region for team.*

This record is used to identify the team name, team code, plus region. When used, more than one team record can be transmitted for a single meet. The team name, USS team code and team abbreviation are required. The USS region code is also required. Additional fields provide for the street address, city, state, postal code, and country code.

start/ length	Mand	Type	Description
1/2	M1	CONST	"C1"
3/1	M2	CODE	ORG Code 001, table checked
4/8			future use
12/6	M1	CODE	TEAM Code 006
18/30	M1	ALPHA	full team name
48/16		ALPHA	abbreviated team name
64/22		ALPHA	team address line one
86/22		ALPHA	team address line two
108/20		ALPHA	team city
128/2		USPS	team state
130/10		ALPHA	Postal Code, team zip or foreign code
140/3		CODE	COUNTRY Code 004, table checked
143/1		CODE	REGION Code 007, table checked
144/6			future use
150/1		ALPHA	optional 5th char of team code
151/10			future use

## 11 C2 -- TEAM ENTRY RECORD

*Purpose: Identify the team coach and the number of entries for the team.*

This record is used to identify the team coach. When used, one team entry record would be submitted with the C1 team ID record. The USS team code and team coach field are required. Additional fields provide for the number of individual swimmers, number of splash records, number of relay entries, number of relay name entries and number of split records.

start/ length	Mand	Type	Description
1/2	M1	CONST	"C2"
3/1	M2	CODE	ORG Code 001, table checked
4/8			future use
12/6	M2	CODE	TEAM Code 006
18/30	M2	ALPHA	coach name
48/12		PHONE	coach phone
60/6		INT	number of entries (from this team) in the individual events, corresponds to number of D0 records
66/6		INT	number of different athletes on team
72/5		INT	number of entries (from this team) in the relay events, corresponds to number of E0 records
77/6		INT	number of relay swimmer entries (from this team), corresponds to number of F0 records
83/6		INT	number of split records (from this team) in relay and individual events, corresponds to number of G0 records
89/16		ALPHA	short team name for display purposes
105/45			future use
150/1		ALPHA	optional 5th char of team code
151/10			future use

## 12 D0 -- INDIVIDUAL EVENT RECORD

*Purpose: Identify the athlete by name, registration number, birth date and gender. Identify the stroke, distance, event number and time of the swims.*

This record is used to identify the athlete and the individual event. When used, one individual event record would be submitted for each swimmer entered in an individual event. The athlete name, USS registration number, birth date and gender code are required. Fields for the stroke, distance, event number, age range, and date of swim are also required. Additional fields provide for the citizenship, age or class, seed time, prelim time, swim off time, finals time and pool lanes used in competition.

NOTE: Individual event records must be preceded by at least one C1 team ID record and one C2 team entry record. If these two records are missing, the individual is assumed to be attached to the previous "team" that has proper coding. Athlete registration data is not available to meet management programs and proper coding is essential.

start/ length	Mand	Type	Description
1/2	M1	CONST	"D0"
3/1	M2	CODE	ORG Code 001, table checked
4/8			future use
12/28	M1	NAME	swimmer name
40/12	M2	ALPHA	USS#
52/1		CODE	ATTACH Code 016, table checked
53/3		CODE	CITIZEN Code 009, table checked
56/8	M2	DATE	swimmer birth date
64/2		ALPHA	swimmer age or class (such as Jr or Sr)
66/1	M1	CODE	SEX Code 010, table checked
67/1	M1#	CODE	EVENT SEX Code 011, table checked
68/4	M1#	INT	event distance
72/1	M1#	CODE	STROKE Code 012, table checked
73/4			future use
77/4	M1#	CODE	EVENT AGE Code 025, table checked
81/8	M2	DATE	date of swim

STANDARD DATA INTERCHANGE FORMAT

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89/8		TIME	seed time
97/1	*	CODE	COURSE Code 013, table checked
98/8		TIME	prelim time
106/1	*	CODE	COURSE Code 013, table checked
107/8		TIME	swim-off time
115/1	*	CODE	COURSE Code 013, table checked
116/8		TIME	finals time
124/1	*	CODE	COURSE Code 013, table checked
125/2		INT	prelim heat number
127/2		INT	prelim lane number
129/2		INT	finals heat number
131/2		INT	finals lane number
133/3	**	INT	prelim place ranking
136/3	**	INT	finals place ranking
139/4	**	DEC	points scored from finals
143/2		CODE	EVENT TIME CLASS Code 014, table checked
145/1		ALPHA	flight status of swimmer (subdivision of Time Standard)
146/15			future use

\* This field is mandatory IF the immediately preceding time field is NOT blank

\*\* This field is mandatory (M1) if a championship meet (MEET Code 005 - 6,7)

# Event age code 025, event sex code 011, event distance, stroke code 012 and seed time are not mandatory (M1) for relay only swimmers.

Note - An additional record type will be used for open water swimming. Multiple swim offs require multiple records.

### 13 D1 -- INDIVIDUAL ADMINISTRATIVE RECORD

*Purpose: Identify the athlete by name, registration number, birth date and gender. Identify other administrative information.*

This record is used to identify the athlete and his/her administrative information. When used, one individual administrative record would be submitted for each swimmer in the file. The athlete name, USS registration number, birth date and gender code are required.

start/ length	Mand	Type	Description
1/2	M1*	CONST	"D1"
3/1	M2*	CODE	ORG Code 001, table checked
4/8			future use
12/6	*	CODE	TEAM Code 006
18/1		ALPHA	optional 5th char of team code
19/28	M1*	NAME	swimmer name
47/1			future use
48/12	M2*	ALPHA	USS#
60/1		CODE	ATTACH Code 016, table checked
61/3	*	CODE	CITIZEN Code 009, table checked
64/8	M2*	DATE	swimmer birth date
72/2		ALPHA	swimmer age or class (such as Jr or Sr)
74/1	M1*	CODE	SEX Code 010, table checked
75/30		ALPHA	first admin info field
105/20	*	ALPHA	fourth admin info field, used in submission of registration data for old member number if inits or birthdate change
125/12	*	PHONE	first phone number for swimmer
137/12		PHONE	second phone number for swimmer
149/8	*	DATE	date swimmer registered with USS

STANDARD DATA INTERCHANGE FORMAT

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157/1	*	CODE	MEMBER Code 021, table checked
158/3			future use

\* required field for submission of registration data to LSC

## 14 D2 -- INDIVIDUAL CONTACT RECORD

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*Purpose: Identify the athlete by name. Identify mailing and contact information.*

This record is used to identify the athlete and his/her contact information. When used, one individual contact record would be submitted for each swimmer in the file. The athlete name is required.

start/ length	Mand	Type	Description
-----			
1/2	M1*	CONST	"D2"
3/1	M2*	CODE	ORG Code 001, table checked
4/8			future use
12/6	*	CODE	TEAM Code 006
18/1		ALPHA	optional 5th char of team code
19/28	M1*	NAME	swimmer name
47/30		ALPHA	alternate mailing name
77/30	*	ALPHA	mailing address (street)
107/20	*	ALPHA	mailing city
127/2	*	USPS	mailing state
129/12		ALPHA	mailing country
141/10	*	ALPHA	Postal Code, zip or foreign code
151/3		CODE	COUNTRY Code 004, table checked
154/1		CODE	REGION Code 007, table checked
155/1	*	CODE	ANSWER Code 023, Is swimmer also a member of another FINA federation?
156/1	*	CODE	SEASON Code 022, table checked, show which



157/4 season swimmer is registered for  
future use

\* required field for submission of registration data to LSC

## 15 D3 -- INDIVIDUAL INFORMATION RECORD

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*Purpose: Contains additional information that is not included in pre version 3 SDI formats.*

This record provides space for the new USS# as well as the swimmers preferred first name. For meet files this record will follow the D0 record and the F0 record if relays are included. A swimmer with multiple D0 records will have one D3 record following his/her first D0 record.

start/ length	Mand	Type	Description
1/2	M1	CONST	"D3"
3/14	M2	USSNUM	USS# (new)
17/15		ALPHA	prefered first name
32/2	*	CODE	ethnicity code 026
34/1	*	LOGICAL	Junior High School
35/1	*	LOGICAL	Senior High School
36/1	*	LOGICAL	YMCA/YWCA
37/1	*	LOGICAL	College
38/1	*	LOGICAL	Park and Rec.
39/1	*	LOGICAL	Summer League
40/1	*	LOGICAL	Country Club
41/1	*	LOGICAL	Masters
42/1	*	LOGICAL	Disabled Sports Organizations
43/1	*	LOGICAL	Water Polo
44/117			future use

\* Required for submission of registration data to an LSC

**16 E0 -- RELAY EVENT RECORD**

*Purpose: Identify the relay team by name, USS team code, and gender. Identify the stroke, distance, event number, date and time of the swims.*

This record is used to identify the team and the relay event. When used, one relay event record would be submitted for each relay squad entered in a relay event. The relay team name, USS team code, and gender code are required. Fields for the stroke, distance, event number, age range, and date of swim, are also required. Additional fields provide for the age or class, seed time, prelim time, swim off time, finals time, and pool lanes used in competition.

start/ length	Mand	Type	Description
1/2	M1	CONST	"E0"
3/1	M2	CODE	ORG Code 001, table checked
4/8			future use
12/1	M1	ALPHA	relay team name: one alpha char to concatenate with the abbreviated team name (48/16) in record C1 -- creates such names as "Dolphins A"
13/6	M1	CODE	TEAM Code 006
19/2		INT	number of F0 relay name records to follow
21/1	M1	CODE	EVENT SEX Code 011, table checked
22/4	M1	INT	distance of relay
26/1	M1	CODE	STROKE Code 012, table checked
27/4			future use
31/4	M1	CODE	EVENT AGE Code 025, table checked
35/3		INT	total age of all athletes in this event
38/8	M2	DATE	date of swim
46/8		TIME	seed time
54/1	*	CODE	COURSE Code 013, table checked
55/8		TIME	prelim time
63/1	*	CODE	COURSE Code 013, table checked

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STANDARD DATA INTERCHANGE FORMAT

---

64/8		TIME	swim-off time
72/1	*	CODE	COURSE Code 013, table checked
73/8		TIME	finals time
81/1	*	CODE	COURSE Code 013, table checked
82/2		INT	prelim heat number
84/2		INT	prelim lane number
86/2		INT	finals heat number
88/2		INT	finals lane number
90/3	**	INT	prelim place ranking
93/3	**	INT	finals place ranking
96/4	**	DEC	points scored from finals
100/2		CODE	EVENT TIME CLASS Code 014, table checked
103/59			future use

\* This field is mandatory IF the immediately preceding time field is NOT blank

\*\* This field is mandatory (M1) if a championship meet

## 17 F0 -- RELAY NAME RECORD

---

*Purpose: Identify the athletes on a relay team by name, USS registration number, birth date and gender. Identify the stroke, distance, event number, date, session and time of the swims.*

This record is used to identify the athletes on a relay team and the relay order. When used, one relay name record is submitted for each relay athlete entered in a relay event. Alternates may be listed on additional records as an optional method of using this record. The relay team name, USS team code, and gender code are required. The Event ID # field (12/4) is required to properly identify the relay team to an event and to further link the splits for a relay athlete. Fields for the stroke, distance, event number, age or class, and date of swim, are also required. Additional fields provide for the seed time, prelim time, swim off time, finals time, and pool lanes used in competition.

NOTE: Relay name records must be preceded by at least one E0 relay event record. If this record is missing, the athlete on a relay team cannot be attached to the proper relay squad.

STANDARD DATA INTERCHANGE FORMAT

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start/ length	Mand	Type	Description
1/2	M1	CONST	"F0"
3/1	M2	CODE	ORG Code 001, table checked
4/12			future use
16/6	M1	CODE	TEAM Code 006
22/1	M1#	ALPHA	relay team name: one alpha char to concatenate with the team abbreviation in record C1 -- creates such names as "Dolphins A"
23/28	M1	NAME	swimmer name
51/12	M2	ALPHA	USS#
63/3		CODE	CITIZEN Code 009, table checked
66/8	M2	DATE	swimmer's birth date
74/2		ALPHA	swimmer age or class (such as Jr or Sr)
76/1	M1	CODE	SEX Code 010, table checked
77/1	M1	CODE	ORDER Code 024, prelim leg, table checked
78/1	M1	CODE	ORDER Code 024, swim-off leg, table checked
79/1	M1	CODE	ORDER Code 024, finals leg, table checked
80/8		TIME	leg time
88/1	*	CODE	COURSE Code 013, table checked
89/4		DEC	automatic take-off time in seconds and hundredths (s.ss)
93/68			future use

# If the record is being sent for meet registration and team has not been finalized, this is NOT mandatory

\* This field is mandatory IF the immediately preceding time field is NOT blank

## 18 G0 -- SPLITS RECORD

---

*Purpose: Identify the athletes in an event by name and USS registration number. Identify the split distance, number of splits and the split times of the swims.*

This record is used to identify the athletes in an event and the split times. When used, one splits record would be submitted for each event that an athlete entered in a meet. The athlete name, USS registration code, and split distance are required. A split type code is required to identify the split as an interval or cumulative time. Ten time fields are provided to record the splits, and multiple records may be used to complete all splits for a long-distance event.

NOTE: Splits records must be preceded by at least one D0 individual event record or one F0 relay name record. If this record is missing, there is no way to connect the splits with the swim.

start/ length	Mand	Type	Description
1/2	M1	CONST	"G0"
3/1	M2	CODE	ORG Code 001, table checked
4/12			future use
16/28		NAME	swimmer name. If name is not available, enter "NO SWIMMER NAME" or some other meaningful string
44/12		ALPHA	USS#
56/1	M1	INT	sequence number to order multiple splits records for one athlete and one event
57/2	M1	INT	total number of splits for this event,
59/4	M1	INT	split distance
63/1	M1	CODE	SPLIT Code 015, table checked
64/8		TIME	split time
72/8		TIME	split time
80/8		TIME	split time
88/8		TIME	split time
96/8		TIME	split time

STANDARD DATA INTERCHANGE FORMAT

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104/8	TIME	split time
112/8	TIME	split time
120/8	TIME	split time
128/8	TIME	split time
136/8	TIME	split time
144/1	CODE	PRELIMS/FINALS Code 019, table checked
145/16		future use

## 19 J0 -- MEET QUALIFYING TIMES RECORD

---

*Purpose: Identify the qualifying times for each event of a meet.*

This record is used to identify qualifying times for each event. When used, one meet qualifying times record would be submitted for each event in the meet. The first six fields are mandatory. At least one time and the age range are also required. Fields for the zone, meet and LSC codes are also provided.

start/ length	Mand	Type	Description
1/2	M1	CONST	"J0"
3/8	M1	DATE	date on which times become effective
11/1	M1	CODE	MEET Code 005, table checked
12/5			future use
17/1	M1	CODE	EVENT SEX Code 011, table checked
18/4	M1	INT	distance of event
22/1	M1	CODE	STROKE Code 012, table checked
23/8		TIME	for short course yards
31/8		TIME	for short course meters
39/8		TIME	for long course meters
47/4	M1	CODE	EVENT AGE Code 025, table checked
51/1		CODE	ZONE Code 017, table checked

52/2	CODE	REGION Code 007, table checked
54/2	CODE	LSC Code 002, table checked
56/105		future use

## 20 J1 -- NATIONAL AGE GROUP TIMES RECORD

---

*Purpose: Identify the qualifying times for national age group records.*

This record is used to identify qualifying times for national age group records. When used, one NAG qualifying times record would be submitted for each event, age group and course combination. The first seven fields are mandatory. At least one time is also required.

start/ length	Mand	Type	Description
1/2	M1	CONST	"J1"
3/8	M1	DATE	date on which times become effective
11/1	M1	CODE	EVENT SEX Code 011, table checked
12/4	M1	INT	distance of event
16/1	M1	CODE	STROKE Code 012, table checked
17/4	M1	CODE	EVENT AGE Code 025, table checked
21/1	M1	CODE	COURSE Code 013, table checked
22/8		TIME	BB time
30/8		TIME	B time
38/8		TIME	A time
46/8		TIME	AA time
54/8		TIME	AAA time
62/8		TIME	AAAA time
70/91			future use

## 21 J2 -- USS MOTIVATIONAL TIMES RECORD

*Purpose: Identify the qualifying times for national age group records.*

This record is used to identify qualifying times for USS motivational programs. When used, one USS motivational times record is submitted for each event. The first five fields are mandatory. When this record is used, at least one time is also required.

start/ length	Mand	Type	Description
1/2	M1	CONST	"J2"
3/1	M1	CODE	EVENT SEX Code 011, table checked
4/4	M1	INT	distance of event
8/1	M1	CODE	STROKE Code 012, table checked
9/4	M1	CODE	COLOR Code 018, table checked
13/8		TIME	short course yards level 1
21/8		TIME	short course yards level 2
29/8		TIME	short course yards level 3
37/8		TIME	long course meters level 1
45/8		TIME	long course meters level 2
53/8		TIME	long course meters level 3
61/8	M1	DATE	date on which times become effective
69/92			future use



## 22 Z0 -- FILE TERMINATOR RECORD

*Purpose: Identify the logical end of file for a file transmission. Record statistics and swim statistics are listed for convenience.*

This record is mandatory in each file. Each file ends with this record and each file has only one record of this type. The first four fields are mandatory. Additional fields provide for text and record counts.

start/ length	Mand	Type	Description
1/2	M1	CONST	"Z0"
3/1	M2	CODE	ORG Code 001, table checked
4/8			future use
12/2	M1	CODE	FILE Code 003, table checked
14/30		ALPHA	notes (additional file info)
44/3		INT	number of B records
47/3		INT	number of different meets
50/4		INT	number of C records
54/4		INT	number of different teams
58/6		INT	number of D records
64/6		INT	number of different swimmers
70/5		INT	number of E records
75/6		INT	number of F records
81/6		INT	number of G records
87/5		INT	batch number
92/3		INT	number of new members
95/3		INT	number of renew members
98/3		INT	number of member changes
101/3		INT	number of member deletes

104/57

future use

**23 CODE TABLES****ORG CODE 001 ORGANIZATION CODE**

1	USS	6	NCAA Div III
2	Masters	7	YMCA
3	NCAA	8	FINA
4	NCAA Div I	9	High School
5	NCAA Div II		

**LSC CODE 002 LOCAL SWIMMING COMMITTEE CODE**

AD	Adirondack	MV	Missouri Valley
AK	Alaska	MW	Midwestern
AM	Allegheny Mountain	NC	North Carolina
AR	Arkansas	ND	North Dakota
AZ	Arizona	NE	New England
BD	Border	NI	Niagara
CA	Southern California	NJ	New Jersey
CC	Central California	NM	New Mexico
CO	Colorado	NT	North Texas
CT	Connecticut	OH	Ohio
FG	Florida Gold Coast	OK	Oklahoma
FL	Florida	OR	Oregon
GA	Georgia	OZ	Ozark
GU	Gulf	PC	Pacific
HI	Hawaii	PN	Pacific Northwest
IA	Iowa	PV	Potomac Valley
IE	Inland Empire	SC	South Carolina
IL	Illinois	SD	South Dakota
IN	Indiana	SE	Southeastern
KY	Kentucky	SI	San Diego Imperial
LA	Louisiana	SN	Sierra Nevada
LE	Lake Erie	SR	Snake River
MA	Middle Atlantic	ST	South Texas
MD	Maryland	UT	Utah
ME	Maine	VA	Virginia
MI	Michigan	WI	Wisconsin
MN	Minnesota	WT	West Texas
MR	Metropolitan	WV	West Virginia
MS	Mississippi	WY	Wyoming
MT	Montana		

**FILE CODE 003 FILE/TRANSMISSION TYPE CODE**

01	Meet Registrations
02	Meet Results
03	OVC
04	National Age Group Record
05	LSC Age Group Record
06	LSC Motivational List
07	National Records and Rankings
08	Team Selection
09	LSC Best Times
10	USS Registration
16	Top 16
20	Vendor-defined code

**COUNTRY CODE 004 FINA COUNTRY CODE (EFFECTIVE 1993)**

AFG	Afghanistan	LAO	Laos
AHO	Antilles Netherlands	LAT	Latvia
ALB	Albania	LBA	Libya
ALG	Algeria	LBR	Liberia
AND	Andorra	LES	Lesotho
ANG	Angola	LIB	Lebanon
ANT	Antigua	LIE	Liechtenstein
ARG	Argentina	LIT	Lithuania
ARM	Armenia	LUX	Luxembourg
ARU	Aruba	MAR	Morocco
ASA	American Samoa	MAS	Malaysia
AUS	Australia	MAW	Malawi
AUT	Austria	MDV	Maldives
AZE	Azerbaijan	MEX	Mexico
BAH	Bahamas	MGL	Mongolia
BAN	Bangladesh	MLD	Moldova
BAR	Barbados	MLI	Mali
BEL	Belgium	MLT	Malta
BEN	Benin	MON	Monaco
BER	Bermuda	MOZ	Mozambique
BHU	Bhutan	MRI	Mauritius
BIZ	Belize	MTN	Mauritania
BLS	Belarus	MYA	Union of Myanmar
BOL	Bolivia	NAM	Namibia
BOT	Botswana	NCA	Nicaragua
BRA	Brazil	NED	Netherlands
BRN	Bahrain	NEP	Nepal
BRU	Brunei	NGR	Nigeria
BUL	Bulgaria	NIG	Niger
BUR	BurkinaFaso	NOR	Norway
CAF	Central African Republic	NZL	New Zealand
CAN	Canada	OMA	Oman
CAY	Cayman Islands	PAK	Pakistan

STANDARD DATA INTERCHANGE FORMAT

CGO	People's Rep. Of Congo	PAN	Panama
CHA	Chad	PAR	Paraguay
CHI	Chile	PER	Peru
CHN	People's Rep. Of China	PHI	Philippines
CMR	Cameroon	PNG	Papau-New Guinea
COK	CookIslands	POL	Poland
COL	Columbia	POR	Portugal
CRC	CostaRica	PRK	DemocraticP eople's Rep. Of Korea
CRO	Croatia	PUR	Puerto Rico
CUB	Cuba	QAT	Qatar
CYP	Cyprus	ROM	Romania
DEN	Denmark	RSA	South Africa
DJI	Djibouti	RUS	Russia
DOM	Dominican Republic	RWA	Rwanda
ECU	Ecuador	SAM	Western Samoa
EGY	Arab Republic of Egypt	SEN	Senegal
ESA	ElSalvador	SEY	Seychelles
ESP	Spain	SIN	Singapore
EST	Estonia	SLE	SierraLeone
ETH	Ethiopia	SLO	Slovenia
FIJ	Fiji	SMR	SanMarino
FIN	Finland	SOL	Solomon Islands
FRA	France	SOM	Somalia
GAB	Gabon	SRI	SriLanka
GAM	Gambia	SUD	Sudan
GBR	Great Britain	SUI	Switzerland
GEO	Georgia	SUR	Surinam
GEQ	Equatorial Guinea	SWE	Sweden
GER	Germany	SWZ	Swaziland
GHA	Ghana	SYR	Syria
GRE	Greece	TAN	Tanzania
GRN	Grenada	TCH	Czechoslovakia
GUA	Guatemala	TGA	Tonga
GUI	Guinea	THA	Thailand
GUM	Guam	TJK	Tadjikistan
GUY	Guyana	TOG	Togo
HAI	Haiti	TPE	ChineseTaipei
HKG	Hong Kong	TRI	Trinidad & Tobago
HON	Honduras	TUN	Tunisia
HUN	Hungary	TUR	Turkey
INA	Indonesia	UAE	United Arab Emirates
IND	India	UGA	Uganda
IRI	Islamic Republic of Iran	UKR	Ukraine
IRL	Ireland	URU	Uruguay
IRQ	Iraq	USA	United States of America
ISL	Iceland	VAN	Vanuatu
ISR	Israel	VEN	Venezuela
ISV	Virgin Islands	VIE	Vietnam
ITA	Italy	VIN	St. Vincent and the Grenadines
IVB	British Virginl slands	YEM	Yemen
JAM	Jamaica	YUG	Yugoslavia

JOR	Jordan	ZAI	Zaire
JPN	Japan	ZAM	Zambia
KEN	Kenya	ZIM	Zimbabwe
KGZ	Kyrgyzstan		
KOR	Korea (South)		
KSA	Saudi Arabia		
KUW	Kuwait		
KZK	Kazakhstan		

**MEET CODE 005 MEET TYPE CODE**

1	Invitational	8	Seniors
2	Regional	9	Dual
3	LSC Championship	0	Time Trials
4	Zone	A	International
5	Zone Championship	B	Open
6	National Championship	C	League
7	Juniors		

**TEAM CODE 006 LSC AND TEAM CODE**

Supplied from USS Headquarters files upon request. Concatenation of two-character LSC code and four-character Team code, in that order (e.g., Colorado's FAST would be COFAST). The code for Unattached should always be UN, and not any other abbreviation. (Florida Gold's unattached would be FG UN.)

**REGION CODE 007 REGION CODE**

1	Region 1	8	Region 8
2	Region 2	9	Region 9
3	Region 3	A	Region 10
4	Region 4	B	Region 11
5	Region 5	C	Region 12
6	Region 6	D	Region 13
7	Region 7	E	Region 14

**USS# CODE 008 USS MEMBER NUMBER CODE**

Refer to USS membership files. These will not be published.

**CITIZEN CODE 009 CITIZENSHIP CODE**

2AL Dual: USA and other country  
 FGN Foreign  
 All codes in COUNTRY Code 004

**SEX CODE 010 SWIMMER SEX CODE**

M	Male
F	Female

**EVENT SEX CODE 011 SEX OF EVENT CODE**

M	Male
F	Female
X	Mixed

**STROKE CODE 012 EVENT STROKE CODE**

1	Freestyle
2	Backstroke
3	Breaststroke
4	Butterfly
5	Individual Medley
6	Freestyle Relay
7	Medley Relay

**COURSE CODE 013 COURSE/STATUS CODE**

Please note that there are alternatives for the three types of pools. The alpha characters make the file more readable. Either may be used.

1 or S	Short Course Meters
2 or Y	Short Course Yards
3 or L	Long Course Meters
X	Disqualified

**EVENT TIME CLASS CODE 014 EVENT TIME CLASS CODE**

The following characters are concatenated to form a 2-byte code for the event time class. The first character indicates the lower limit; the second character indicates the upper limit. 22 indicates B meets, 23 indicates B-A meets, and 40 indicates AA+ meets.

U	no lower limit (left character only)
O	No upper limit (right character only)
1	Novice times
2	B standard times
P	BB standard times
3	A standard times
4	AA standard times
5	AAA standard times
6	AAAA standard times
J	Junior standard times
S	Senior standard times

**SPLIT CODE 015 SPLIT CODE**

C Cumulative splits supplied  
I Interval splits supplied

**ATTACH CODE 016 ATTACHED CODE**

A Swimmer is attached to team  
U Swimmer is swimming unattached

**ZONE CODE 017 ZONE CODE**

E Eastern Zone  
S Southern Zone  
C Central Zone  
W Western Zone

**COLOR CODE 018 COLOR CODE**

GOLD Gold  
SILV Silver  
BRNZ Bronze  
BLUE Blue  
RED Red (note that fourth character is a space)  
WHIT White

**PRELIMS/FINALS CODE 019 PRELIMS/FINALS CODE**

P Prelims  
F Finals  
S Swim-offs

**TIME CODE 020 TIME EXPLANATION CODE**

NT No Time  
NS No Swim (or No Show)  
DNF Did Not Finish  
DQ Disqualified  
SCR Scratch

**MEMBER CODE 021 MEMBERSHIP TRANSACTION TYPE**

R Renew  
N New  
C Change  
D Delete

**SEASON CODE 022**

1	Season 1
2	Season 2
N	Year-round

**ORDER CODE 024 RELAY LEG ORDER**

0	Not on team for this swim
1	First leg
2	Second leg
3	Third leg
4	Fourth leg
A	Alternate

**EVENT AGE CODE 025**

First two bytes are lower age limit (digits, or "UN" for no limit).  
Last two bytes are upper age limit (digits, or "OV" for no limit).  
If the age is only one digit, fill with a zero (no blanks allowed).

**ETHNICITY CODE 026**

The first byte contains the first ethnicity selection. The second byte contains an optional second ethnicity selection. If the first byte contains a V,W or X then the second byte must be blank.

Q	African American
R	Asian or Pacific Islander
S	Hispanic
U	Native American
V	Other
W	Decline
X	No Responce



## 24 CODING EXAMPLES

The user of this interchange format has few limitations on the required records and the logical order. There are only two required records - the file description record "A0" and the file terminator record "Z0". These two records bracket a data transmission batch in a logical structure. Optional records have mandatory fields to provide essential information to understand and utilize the data supplied. Meet management applications will dominate the types of data transmissions. The format has been designed to accommodate other USS uses.

### Meet Entry

Example - two teams in a dual meet. One team is the host and merges host team data with visiting team data. The visiting team provides an "A0" record, a "B1" record as a courtesy, a "B2" record as a courtesy, a "C1" record, a "C2" record, seventy-four "D0" and "D3" records for forty-eight swimmers, five "E0" records for the five relay entries, twenty-nine "F0" and "D0" and "D3" records for relay swimmers and alternates, and a "Z0" record to close the file.

The host team merges a "C1" record, a "C2" record, sixty-three "D0" and "D3" records for fifty one swimmers, six "E0" records for six relay entries, thirty-five "F0" and "D3" records for the relay swimmers and alternates, and a "Z0" record is shared from the visiting team submission. The diagram of the records is given below.

Visiting Team	Host Team
"A0" 1 record	(shares same record)
"B1" 1 dual meet	(shares same record)
"B2" 1 names host team	(shares same record)
"C1" 1 visiting team	"C1" 1 host team
"C2" 1 visiting team	"C2" 1 host team
"D0"-	"D0"-
"D3" 74 visiting athl-event	"D3" 63 host athl-event
"E0" 5 relay entries	"E0" 6 relay entries
"F0"-"D3" 29 relay swimmers	"F0"-"D3" 35 relay swimmers
"Z0" 1 record	(shares same record)

Swimmers who have not completed the 120-day waiting period are coded with UNATTACHED status on the individual record, but they may still be associated with the team. The individual event records may be in any order for that team. The relay event records may be in any order but the relay name records must follow each relay event entry.

For meets with multiple teams the file would have the records for one team together as a group, then the second team and so on until all the teams are completed. Unattached swimmers who are not associated with a team would be grouped as an "unattached team" with a team ID record that indicates that the athletes are unattached.

It is the responsibility of the participating teams to provide complete and accurate data. The minimum required fields are noted with an "M" in the mandatory column in the Format Design section of this manual. The host may require more information to conduct the meet and teams should review the meet invitations closely.

**Meet results from the dual meet**

"A0" 1 record for the meet with sanction number and text

"B1" 1 record for meet host data

"B2" 1 record for meet host data

"C1" 1 visiting team record

"C2" 1 visiting team record

"D0" 64 records for visiting team

"G0" 31 records for splits from individual swims

"E0" 5 relay records for visiting team

"F0" 20 relay name records for competing swimmers

"G0" 4 split records for 4 swimmers on lead off

"C1" 1 host team record

"C2" 1 host team record

"D0" 61 records for host team

"G0" 22 records for splits from individual swims

"E0" 4 relay records for host team

"F0" 16 relay name records for host team

"Z0" 1 terminator record for the meet.