Standard Data Interchange Format

Ver. 3.0

(official)

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United States Swimming Interchange Format

VERSION 3 DOCUMENT

Table of Contents

Introduction . . . . . . . . . . . . . . . . . . . . . . . . . 1

Format Design . . . . . . . . . . . . . . . . . . . . . . . . . 2

Meet Pyramid . . . . . . . . . . . . . . . . . . . . . . . . . 5

Record Times Pyramid . . . . . . . . . . . . . . . . . . . . . 7

Time Standards Pyramid . . . . . . . . . . . . . . . . . . . . 7

LSC Registration Pyramid . . . . . . . . . . . . . . . . . . . 8

A0 -- File Description Record . . . . . . . . . . . . . . . . . 9

B1 -- Meet Record . . . . . . . . . . . . . . . . . . . . . . 10

B2 -- Meet Host Record . . . . . . . . . . . . . . . . . . . 11

C1 -- Team Id Record . . . . . . . . . . . . . . . . . . . . 12

C2 -- Team Entry Record . . . . . . . . . . . . . . . . . . . 13

D0 -- Individual Event Record . . . . . . . . . . . . . . . . 14

D1 -- Individual Administrative Record . . . . . . . . . . . 17

D2 -- Individual Contact Record . . . . . . . . . . . . . . . 19

D3 -- Individual Info Record . . . . . . . . . . . . . . . . 21

E0 -- Relay Event Record . . . . . . . . . . . . . . . . . . 22

F0 -- Relay Name Record . . . . . . . . . . . . . . . . . . . 24

G0 -- Splits Record . . . . . . . . . . . . . . . . . . . . . 26

J0 -- Meet Qualifying Times Record . . . . . . . . . . . . . 28

J1 -- National Age Group Times Record . . . . . . . . . . . . 29

J2 -- USS Motivational Times Record . . . . . . . . . . . . . 30

Z0 -- File Terminator Record . . . . . . . . . . . . . . . . 31

Code Tables . . . . . . . . . . . . . . . . . . . . . . . . . 33

ORG Code 001 . . . . . . . . . . . . . . . . . . . . . . 33

LSC Code 002 . . . . . . . . . . . . . . . . . . . . . . 33

FILE Code 003 . . . . . . . . . . . . . . . . . . . . . 34

COUNTRY Code 004 . . . . . . . . . . . . . . . . . . . . 34

MEET Code 005 . . . . . . . . . . . . . . . . . . . . . 36

TEAM Code 006 . . . . . . . . . . . . . . . . . . . . . 37

REGION Code 007 . . . . . . . . . . . . . . . . . . . . 37

USS# Code 008 . . . . . . . . . . . . . . . . . . . . . 37

CITIZEN Code 009 . . . . . . . . . . . . . . . . . . . . 37

SEX Code 010 . . . . . . . . . . . . . . . . . . . . . . 37

EVENT SEX Code 011 . . . . . . . . . . . . . . . . . . . 37

STROKE Code 012 . . . . . . . . . . . . . . . . . . . . 37

COURSE Code 013 . . . . . . . . . . . . . . . . . . . . 38

EVENT TIME CLASS Code 014 . . . . . . . . . . . . . . . 38

SPLIT Code 015 . . . . . . . . . . . . . . . . . . . . . 38

ATTACH Code 016 . . . . . . . . . . . . . . . . . . . . 38

ZONE Code 017 . . . . . . . . . . . . . . . . . . . . . 38

COLOR Code 018 . . . . . . . . . . . . . . . . . . . . . 39

PRELIMS/FINALS Code 019 . . . . . . . . . . . . . . . . 39

TIME Code 020 . . . . . . . . . . . . . . . . . . . . . 39

MEMBER Code 021 . . . . . . . . . . . . . . . . . . . . 39

SEASON Code 022 . . . . . . . . . . . . . . . . . . . . 39

ORDER Code 024 . . . . . . . . . . . . . . . . . . . . . 39

EVENT AGE Code 025 . . . . . . . . . . . . . . . . . . . 40

ETHNICITY Code 026 . . . . . . . . . . . . . . . . . . . 40

Coding Examples . . . . . . . . . . . . . . . . . . . . . . 41

Introduction

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.

Format Design

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.

There are two levels of mandatory fields. M1 - must be included for the record

to be useful. 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 and should 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 letters of 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

Meet Pyramid

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.

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.

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

ID, split time and interval.

Z0-File terminator rec one per file, contains statistics and text information.

Time Standards Pyramid

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.

LSC Registration Pyramid

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.

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)

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

B1 -- Meet Record

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

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

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

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

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

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)

start/

length Mand Type Description

---------------------------------------------------------------

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 ALPHA Event Number

77/4 M1# CODE EVENT AGE Code 025, table checked

81/8 M2 DATE date of swim

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.

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

157/1 \* CODE MEMBER Code 021, table checked

158/3 future use

\* required field for submission of registration data to LSC

D2 -- Individual Contact Record

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 season swimmer is registered for

157/4 future use

\* required field for submission of registration data to LSC

D3 -- Individual Information Record

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 preferred 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 Summer Swim League

39/1 \* LOGICAL Masters

40/1 \* LOGICAL Disabled Sports Organizations

41/1 \* LOGICAL Water Polo

42/1 \* LOGICAL None

43/118 future use

\* Required for submission of registration data to an LSC

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 ALPHA Event Number

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

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

(MEET Code 005 - 6,7)

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.

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)

93/14 M2 USSNUM USS# (new)

107/15 ALPHA preferred first name

122/39 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

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

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

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

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

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

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

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 BRN Bahrain

AHO Antilles Netherlands BRU Brunei

(Dutch West Indies) BUL Bulgaria

ALB Albania BUR Burkina Faso

ALG Algeria CAF Central African

AND Andorra Republic

ANG Angola CAN Canada

ANT Antigua CAY Cayman Islands

ARG Argentina CGO People's Rep. of Congo

ARM Armenia CHA Chad

ARU Aruba CHI Chile

ASA American Samoa CHN People's Rep. of China

AUS Australia CIV Ivory Coast

AUT Austria CMR Cameroon

AZE Azerbaijan COK Cook Islands

BAH Bahamas COL Columbia

BAN Bangladesh CRC Costa Rica

BAR Barbados CRO Croatia

BEL Belgium CUB Cuba

BEN Benin CYP Cyprus

BER Bermuda DEN Denmark

BHU Bhutan DJI Djibouti

BIZ Belize DOM Dominican Republic

BLS Belarus ECU Ecuador

BOL Bolivia EGY Arab Republic of Egypt

BOT Botswana ESA El Salvador

BRA Brazil ESP Spain

EST Estonia LAO Laos

ETH Ethiopia LAT Latvia

FIJ Fiji LBA Libya

FIN Finland LBR Liberia

FRA France LES Lesotho

GAB Gabon LIB Lebanon

GAM Gambia LIE Liechtenstein

GBR Great Britain LIT Lithuania

GER Germany LUX Luxembourg

GEO Georgia MAD Madagascar

GEQ Equatorial Guinea MAS Malaysia

GHA Ghana MAR Morocco

GRE Greece MAW Malawi

GRN Grenada MDV Maldives

GUA Guatemala MEX Mexico

GUI Guinea MGL Mongolia

GUM Guam MLD Moldova

GUY Guyana MLI Mali

HAI Haiti MLT Malta

HKG Hong Kong MON Monaco

HON Honduras MOZ Mozambique

HUN Hungary MRI Mauritius

INA Indonesia MTN Mauritania

IND India MYA Union of Myanmar

IRL Ireland NAM Namibia

IRI Islamic Rep. of Iran NCA Nicaragua

IRQ Iraq NED The Netherlands

ISL Iceland NEP Nepal

ISR Israel NIG Niger

ISV Virgin Islands NGR Nigeria

ITA Italy NOR Norway

IVB British Virgin Islands NZL New Zealand

JAM Jamaica OMA Oman

JOR Jordan PAK Pakistan

JPN Japan PAN Panama

KEN Kenya PAR Paraguay

KGZ Kyrghyzstan PER Peru

KOR Korea (South) PHI Philippines

KSA Saudi Arabia PNG Papau-New Guinea

KUW Kuwait POL Poland

KZK Kazakhstan POR Portugal

PRK Democratic People's SWE Sweden

Rep. of Korea SWZ Swaziland

PUR Puerto Rico SYR Syria

QAT Qatar TAN Tanzania

ROM Romania TCH Czechoslovakia

RSA South Africa TGA Tonga

RUS Russia THA Thailand

RWA Rwanda TJK Tadjikistan

SAM Western Samoa TOG Togo

SEN Senegal TPE Chinese Taipei

SEY Seychelles TRI Trinidad & Tobago

SIN Singapore TUN Tunisia

SLE Sierra Leone TUR Turkey

SLO Slovenia UAE United Arab Emirates

SMR San Marino UGA Uganda

SOL Solomon Islands UKR Ukraine

SOM Somalia URU Uruguay

SRI Sri Lanka USA United States of America

SUD Sudan

SUI Switzerland VAN Vanuatu

SUR Surinam VEN Venezuela

VIE Vietnam

VIN St. Vincent and the Grenadines

YEM Yemen

YUG Yugoslavia

ZAI Zaire

ZAM Zambia

ZIM Zimbabwe

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 4O 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 Caucasian

T Hispanic

U Native American

V Other

W Decline

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" 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" 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" 29 relay swimmers "F0" 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.