INTERNATIONAL OLYMPIC COMMITTEE

# Olympic Data Feed

## ODF Biathlon and Cross Country Data Dictionary

**PyeongChang – XXIII Olympic Winter Games**

Technology and Information Department



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# Table of Contents

# 1 Introduction

## 1.1 This document

This document includes the ODF Biathlon and Cross Country Data Dictionary. This Data Dictionary refines the messages described in the ODF General Messages Interface Document specifically for Biathlon and Cross Country.

## 1.2 Objective

The objective of this document is to provide a complete and formal definition of the ODF Biathlon and Cross Country Data Dictionary, with the intention that the information message producer and the message consumer can successfully interchange the information as the Biathlon and Cross Country competition is run.

## 1.3 Main Audience

The main audience of this document is the IOC as the ODF promoter, ODF users such as the World News Press Agencies, Rights Holding Broadcasters and International Sports Federations.

## 1.4 Glossary

The following abbreviations are used in this document.

| Acronym | Description |
|---|---|
| IF | International Federation |
| IOC | International Olympic Committee |
| NOC | National Olympic Committee |
| ODF | Olympic Data Feed |
| RSC | Results System Codes |
| WNPA | World News Press Agencies |

## 1.5 Related Documents

| Document Reference | Document Title | Document Description |
|---|---|---|
| ODF/INT400 | ODF Foundation Principles | The document explains the environment and general principles for ODF |
| ODF/INT401 | ODF General Messages Interface Document | The document describes the ODF General Messages |

| Document Reference | Document Title | Document Description |
|---|---|---|
| ODF/COD404 | Common Codes | The document describes the ODF Common codes used across all ODF documents. |
| ODF/COD405 | ODF Sport Codes | This document describes the ODF specific codes used in this sport |
| ODF/COD406 | ODF Header Values | The document details the header values which shows which RSCs are used in which messages. |

# 2 Messages

## 2.1 Applicable Messages

The following table is a full list of all ODF messages and describes the list of messages used in Biathlon and Cross Country.

- The column “Message type“ indicates the DocumentType that identifies a message
- The column “Message name“ is the message name identified by the message type
- The column “Message extended“ indicates whether a particular message has extended definition in regards to those that are general for all sports. If one particular message is not extended, then it should follow the general definition rules.

| Message Type | Message Name | Message extended |
|---|---|---|
| DT_SCHEDULE / DT_SCHEDULE_UPDATE | Competition schedule / Competition schedule update | |
| DT_PARTIC / DT_PARTIC_UPDATE | List of participants by discipline / List of participants by discipline update | X |
| DT_PARTIC_TEAMS / DT_PARTIC_TEAMS_UPDATE | List of teams / List of teams update | X |
| DT_MEDALS | Medal standings | |
| DT_MEDALLISTS_DAY | Medallists of the day | |
| DT_GLOBAL_GM | Global good morning | |
| DT_GLOBAL_GN | Global good night | |
| DT_RESULT | Event Unit Start List and Results | X |
| DT_CURRENT | Current Information | X |
| DT_IMAGE | Image | X |
| DT_PRESSPHOTOFINISH_LK | Press Photofinish | |
| DT_BRACKETS | Brackets | X |
| DT_RANKING | Event Final Ranking | X |
| DT_COMMUNICATION | Communication | |
| DT_CONFIG | Configuration | X |

| | | |
|---|---|---|
| DT_WEATHER | Event Unit Weather conditions | X |
| DT_MEDALLISTS | Event's Medallists | |
| DT_MEDALLISTS_DISCIPLINE | Medallists by discipline | |
| DT_LOCAL_OFF | Discipline/venue stop transmission | |
| DT_LOCAL_ON | Discipline/venue start transmission | |
| DT_KA | Keep Alive | |
| DT_PRESENTER | Medal Presenters | |

## 2.2 Messages

### 2.2.1 List of participants by discipline / List of participants by discipline update

#### 2.2.1.1 Description

A participant is considered to be any individual (type athlete, participating or not in the current games) or any official in one or several disciplines or a competitor being part of a team (team member).

Although the participant may participate in more than one event or more than one discipline, this message just contains the information for the discipline of the message, listing the information of all the events for that discipline.

It is important to note that all the sport messages that make references to athletes (event unit start list and results, phase results, medallists etc.) will always match the athlete ID with the athlete ID in this message.

List of participants by discipline (DT_PARTIC) is a bulk message, provided for each discipline. It is a complete participant information message for one particular discipline. The arrival of this message resets all the previous participants' information for one particular discipline. This message can include a list of current athletes and officials.

List of participants by discipline update (DT_PARTIC_UPDATE) is an update message. It is not a complete list of participants' information by discipline message, only the participant data being modified, i.e. if some data of one participant changes, the element Participant for it with all its children and attributes must be sent.

The key of the information updated consists of the following attribute: Participant @Code. Therefore, any new or updated Participant Discipline-Event will be identified by all these attributes.

#### 2.2.1.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC (discipline level) | Full RSC at the discipline level |
| DocumentType | DT_PARTIC / DT_PARTIC_UPDATE | List of participants by discipline message |

| | | |
|---|---|---|
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction.<br><br>Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

### 2.2.1.3 Trigger and Frequency

The DT_PARTIC message is sent as a bulk message prior to the Games. It is sent several times up to the date of transfer of control to OVR after which only DT_PARTIC_UPDATE messages are sent.

The DT_PARTIC_UPDATE message is triggered when there is a modification in the data for any individual after the transfer of control to OVR.

### 2.2.1.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|
| Competition (0,1) | | | | |
| | Participant (1,N) | | | |

| | | | | |
|---|---|---|---|---|
| | Code | | | |
| | Parent | | | |
| | Status | | | |
| | GivenName | | | |
| | FamilyName | | | |
| | PrintName | | | |
| | PrintInitialName | | | |
| | TVName | | | |
| | TVInitialName | | | |
| | Gender | | | |
| | Organisation | | | |
| | BirthDate | | | |
| | Height | | | |
| | Weight | | | |
| | PlaceofBirth | | | |
| | CountryofBirth | | | |
| | PlaceofResidence | | | |
| | CountryofResidence | | | |
| | Nationality | | | |
| | MainFunctionId | | | |
| | Current | | | |
| | OlympicSolidarity | | | |
| | ModificationIndicator | | | |
| | Discipline (1,1) | | | |
| | | Code | | |
| | | IFId | | |
| | | RegisteredEvent (0,N) | | |
| | | | Event | |
| | | | Bib | |

### 2.2.1.5 Message Values

| Element: Participant (1,N) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Participant's ID.<br><br>It identifies an athlete or an official and the holding participant's valid information for one particular period of time.<br><br>It is used to link other messages to the participant's information.<br><br>Participant's information (example @Organisation) will not be the latest for the athlete/official, unless the @Code attribute is the same as the @Parent attribute. However, this information could be the one being valid in the particular moment of a start list, event unit results, etc.<br><br>When the participant is an historical one, then this ID will start with "A" when it is an Athlete, "C" when Coach and "O" when Official. |
| Parent | M | S(20) with no leading zeroes | Participant's parent ID, which is used to link to the latest valid information for one participant. @Parent attribute should be linked to the latest participant's information, by retrieving that Athlete/Official whose @Code attribute is the same as @Parent.<br><br>The participant containing @Code attribute being the same as the @Parent attribute will be the one with the latest information for the participant.<br>The @Parent attribute will only be different from @Code in the case that critial personal information has changed from previous competitions. The typical examples are Organisation (for change of country) or Name (particularly for women changing their name at marriage). Further to be clear, @Parent and @Code can only be different if Current = "false". |
| Status | O | CC @ParticStatus | Participant's accreditation status this atribute is Mandatory in the case of @Current="true" and it is optional in the case that @Current="false".<br><br>To delete a participant, a specific value of the Status attribute is used. |
| GivenName | O | S(25) | Given name in WNPA format (mixed case) |
| FamilyName | M | S(25) | Family name in WNPA format (mixed case) |

| | | | |
|---|---|---|---|
| PrintName | M | S(35) | Print name (family name in upper case + given name in mixed case) |
| PrintInitialName | M | S(18) | Print Initial name (for the given name it is sent just the initial, without dot) |
| TVName | M | S(35) | TV name |
| TVInitialName | M | S(18) | TV initial name |
| Gender | M | CC @PersonGender | Participant's gender |
| Organisation | M | CC @Organisation | Organisation ID |
| BirthDate | O | YYYY-MM-DD | Date of birth. This information may not be known at the very beginning, but it will be completed for all participants after successive updates |
| Height | O | S(3) | Height in centimetres. It will be included if this information is available. This information is not needed in the case of officials/referees.<br>"-" may be used where the data is not available. |
| Weight | O | S(3) | Weight in kilograms. It will be included if this information is available.<br>This information is not needed in the case of officials/referees.<br>"-" may be used where the data is not available. |
| PlaceofBirth | O | S(75) | Place of Birth |
| CountryofBirth | O | CC @Country | Country ID of Birth |
| PlaceofResidence | O | S(75) | Place of Residence |
| CountryofResidence | O | CC @Country | Country ID of Residence |
| Nationality | O | CC @Country | Participant's nationality.<br><br>Although this attribute is optional, in very exceptional situations it will not be known, and for this reason not ready to be sent. |
| MainFunctionId | O | CC @ResultsFunction | Main function<br><br>In the Case of Current="true" this attribute is Mandatory. |
| Current | M | boolean | It defines if a participant is participating in the games (true) or is a Historical participant (false). |
| OlympicSolidarity | O | S(1) | 'Y' or 'N'<br>Flag to indicating if the participant participates in the Olympic Scholarship program. |
| ModificationIndicator | M | S(1) | 'N' or 'U'<br>Attribute is mandatory in the DT_PARTIC_UPDATE |

| | | | |
|---|---|---|---|
| | | | message only<br><br>N-New participant (in the case that this information comes as a late entry)<br>U-Update participant<br><br>If ModificationIndicator='N', then include new participant to the previous bulk-loaded list of participants<br><br>If ModificationIndicator='U', then update the participant to the previous bulk-loaded list of participants<br><br>To delete a participant, a specific value of the Status attribute is used. |

| **Element: Participant /Discipline (1,1)**<br>**All participating athletes will be assigned at least one discipline, it could be more. Each accredited official will be assigned at least one discipline, but it could be more. If an athlete or official is assigned to more than one discipline, it will be included in the participant message of both disciplines.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | CC @Discipline | Full RSC of the Discipline |
| IFId | O | S(16) | Competitor's federation number for the corresponding discipline (include if the discipline assigns international federation codes to athletes). |

| **Element: Participant /Discipline /RegisteredEvent (0,N)**<br>**All accredited athletes will be assigned to one or more events. There is one exception: in some sports, substitutes may be accredited without any associated event. Historical athletes are not registered to any event.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Event | M | CC @Event | Full RSC of the Event |
| Bib | O | S(5) | Bib number from OVR<br>Numeric for individuals.<br>##0-0 for team members. |

### 2.2.1.6 Message Sort

The message is sorted by Participant @Code

### 2.2.2 List of teams / List of teams update

#### 2.2.2.1 Description

The List of teams message contains the list of teams related to the current competition.

A team is a type of competitor, being a group of two or more individual athletes participating together in one event. One team participates in one event of one discipline. When one team participates in multiple events, there will be one team for each event for the same group. Also when the same organisation participates in the same event twice, there will different teams.

List of teams (DT_PARTIC_TEAMS) is a bulk message by discipline. The list is always complete. The arrival of this message resets all the previous participant teams' information for that discipline. It is assumed that all teams appearing in this list are valid, in the meaning that they are participating or they could participate in one event.

List of teams update (DT_PARTIC_TEAMS_UPDATE) is an update message. It is not a complete list of teams' information message. It only contains the data of a team being modified.

#### 2.2.2.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC (discipline level) | Full RSC at the discipline level |
| DocumentType | DT_PARTIC_TEAMS / DT_PARTIC_TEAMS_UPDATE | List of participant teams message |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight. |

| | | |
|---|---|---|
| | | If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction.<br><br>Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

### 2.2.2.3 Trigger and Frequency

The DT_PARTIC_TEAMS message is sent as a bulk message approximately one month before the Games. It is sent several times up to the date of transfer of control to OVR after which only DT_PARTIC_TEAMS_UPDATE messages are sent.

The DT_PARTIC_TEAMS_UPDATE message is triggered when there is a modification in the data for any team after the transfer of control to OVR.

### 2.2.2.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|
| Competition (0,1) | | | | |
| | Team (1,N) | | | |
| | | Code | | |
| | | Organisation | | |
| | | Number | | |
| | | Name | | |
| | | TVTeamName | | |
| | | Gender | | |
| | | Current | | |
| | | ModificationIndicator | | |
| | | Composition (0,1) | | |
| | | | Athlete (0,N) | |

| | | | | |
|---|---|---|---|---|
| | | | | Code |
| | | | | Order |
| | | Discipline (0,1) | | |
| | | | Code | |
| | | | IFId | |
| | | | RegisteredEvent (0,1) | |
| | | | | Event |
| | | | | Bib |

### 2.2.2.5 Message Values

| Element: Team (1,N) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Team's ID (example BTHM4X7.5KM---AUT01, 393553). |
| Organisation | M | CC @Organisation | Team organisation's ID |
| Number | O | Numeric<br>#0 | Team's number.<br><br>If there is not more than one team for one organisation participating in one event, it is 1. Otherwise, it will be incremental, 1 for the first organisation's team, 2 for the second organisation's team, etc.<br><br>Required in the case of current teams. |
| Name | O | S(73) | Team Name (NOC name). |
| TVTeamName | O | S(21) | Team's TV Name. |
| Gender | M | CC @DisciplineGender | Discipline Gender Code of the Team |
| Current | M | boolean | It defines if a team is participating in the games (true) or it is a Historical team (false) |
| ModificationIndicator | M | N, U, D | Attribute is mandatory in the DT_PARTIC_TEAMS_UPDATE message only<br><br>N-New team (in the case that this information comes as a late entry)<br>U-Update team<br>D-Delete team<br><br>If ModificationIndicator='N', then include new team to |

| | | | |
|---|---|---|---|
| | | | the previous bulk-loaded list of teams<br><br>If ModificationIndicator='U', then update the team to the previous bulk-loaded list of teams<br><br>If ModificationIndicator='D', then delete the team to the previous bulk-loaded list of teams |

| **Element: Team /Composition /Athlete (0,N)**<br>**In the case of current teams the number of athletes is 2 or more.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Athlete's ID |
| Order | O | Numeric<br>0 | Team member order |

| **Element: Team /Discipline (0,1)**<br>**Each team is assigned just to one discipline. Discipline is expected unless ModificationIndicator="D"** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | CC @Discipline | Full RSC of the Discipline |
| IFId | O | S(16) | Competitor's federation number for the corresponding discipline |

| **Element: Team /Discipline /RegisteredEvent (0,1)**<br>**Each current team is assigned to one event. Historical teams will not be registered to any event.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Event | M | CC @Event | Full RSC of the Event |
| Bib | O | S(5) | Team bib number to be sent in all the team event units (team sprint, relay) |

### 2.2.2.6 Message Sort

The message is sorted by Team @Code.

### 2.2.3 Event Unit Start List and Results

#### 2.2.3.1 Description

The Event Unit Start List and Results is a message containing both the start list and results information of the competitors in one (individual or team) event unit.

The Event Unit Start List and Results is a mandatory message for all sports.

This is always a full message and all applicable elements and attributes are always sent.

#### 2.2.3.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC | Sent according to the ODF Common Codes document (header values) with one message per race (unit). |
| DocumentSubcode | N/A | Not used in BTH / CCS |
| DocumentType | DT_RESULT | Event Unit Start List and Results message |
| DocumentSubtype | N/A | Not used in BTH / CCS |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| ResultStatus | SC @ResultStatus | It indicates whether the result is official or unofficial (or intermediate, live, etc).<br>Expected statuses are:<br>START_LIST (as soon as the start list is available and any changes [inc. IRMs])<br>LIVE (when the unit starts and after every update [intermediates etc.]).<br>INTERMEDIATE (used after the competition has started and is not finished but not currently live)<br>UNCONFIRMED (used after the competition is completed and before either UNOFFICIAL or OFFICIAL. It may be sent multiple times if modifications are required and the status has not changed)<br>UNOFFICIAL<br>OFFICIAL |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |

| | | |
|---|---|---|
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction.<br><br>Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

#### 2.2.3.3 Trigger and Frequency

This message is sent:

- As soon as the start list is available and any changes [inc. IRMs] (START_LIST)
- For Individual Events with individual start time send with status LIVE shortly before the first athlete starts to mark the first athlete as NEXT
- For CCS: Individual and Team Sprint Events: After the last heat of a phase (Quarterfinal, Semi-final) of sprint and team sprint the UNOFFICIAL results of each heat of the phase is resend. Only at that time the QualificationMark attributes for Lucky Losers are included.
- For CCS: Individual Sprint Events: Quarterfinals: Heat selection process: As soon as an athlete select a Heat (START_LIST)
- When the unit starts and after every update (intermediates etc.) (LIVE)
- After the race is finished (UNCONFIRMED / UNOFFICIAL / OFFICIAL) as applicable. In detail:
  UNCONFIRMED: after the last competitor has crossed the finish line and until the unofficial results are distributed
  UNOFFICIAL: until the end of the fifteen (15) minutes protesting period or estimated delays in results verification or other open issues
  OFFICIAL: if no protest has been logged during the protest period, and after all protests have been resolved

-PROTESTED: if a protest has been logged during the protest period, until its resolution
- After any change
- Regardless of the rules above the DT_RESULT message in BTH should never be sent more frequently that each 500 ms. That is, after a gap send with any update then wait a minimum of 500 ms (accumulating all changes) before sending the message again.

Understanding Biathlon Shooting Sessions
There are 3 quite common exceptions situations which can happen during shooting which therefore need to be considered and is the reason some values are not updated during a shooting session:
- a shot does not hit the target at all, thus no 'missed shot' information is available for this shot (in such a case the session would have only 4 shots and not 5)
- a shot from an adjacent target might ricochet and touch the target frame with sufficient force to create a 'missed shot' (in such case the session might have 6 shots and not 5)
- an athlete might crossfire to the wrong target. In such case s/he is credited 5 penalties but has 'no shots' at all
For these reasons, the 'number' of penalties in a session is available only when the operator at the shooting range confirms that the athlete has left the lane. The number of penalties is then the number of 'still open' targets regardless of the shots recorded in the session. So it's important to understand that the 'official penalties' are recorded once the operator confirms the end of the shooting which is 1 to 2 seconds after the recording of the last shot of the session.
Given this, it is important to be aware that there is a potential mismatch in between the values in the Result element and the Actions of the message at athlete level.

### 2.2.3.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 |
|---|---|---|---|---|---|---|---|---|
| Competition (0,1) | | | | | | | | |
| | ExtendedInfos (0,1) | | | | | | | |
| | | UnitDateTime (0,1) | | | | | | |
| | | | StartDate | | | | | |
| | | ExtendedInfo (0,N) | | | | | | |
| | | | Type | | | | | |
| | | | Code | | | | | |
| | | | Pos | | | | | |
| | | | Value | | | | | |
| | | | Extension (0,N) | | | | | |
| | | | | Code | | | | |
| | | | | Pos | | | | |

- Value
- Competitor (0,N)
  - Organisation
- SportDescription (0,1)
  - DisciplineName
  - EventName
  - Gender
  - SubEventName
- VenueDescription (0,1)
  - Venue
  - VenueName
  - Location
  - LocationName
- Officials (0,1)
  - Official (1,N)
    - Code
    - Function
    - Order
    - Description (1,1)
      - GivenName
      - FamilyName
      - Gender
      - Organisation
- Result (1,N)
  - Rank
  - RankEqual
  - Result
  - IRM
  - QualificationMark
  - SortOrder
  - StartOrder
  - StartSortOrder

- ResultType
- Diff
- ExtendedResults (0,1)
  - ExtendedResult (1,N)
    - Type
    - Code
    - Pos
    - Value
    - ValueType
    - IRM
    - Rank
    - RankEqual
    - SortOrder
    - Diff
    - Extension (0,N)
      - Code
      - Pos
      - Value
- Competitor (1,1)
  - Code
  - Type
  - Bib
  - Organisation
  - Description (0,1)
    - TeamName
  - EventUnitEntry (0,N)
    - Type
    - Code
    - Pos
    - Value
  - Composition (0,1)
    - Athlete (1,N)

- Code
- Order
- Bib
- Description (1,1)
  - GivenName
  - FamilyName
  - Gender
  - Organisation
  - BirthDate
  - IFId
- EventUnitEntry (0,N)
  - Type
  - Code
  - Pos
  - Value
- ExtendedResults (0,1)
  - ExtendedResult (1,N)
    - Type
    - Code
    - Pos
    - Value
    - ValueType
    - IRM
    - Rank
    - RankEqual
    - SortOrder
    - Diff
    - Extension (0,N)
      - Code
      - Pos
      - Value

### 2.2.3.5 Message Values

| Element: ExtendedInfos /UnitDateTime (0,1)<br>Actual start date and time / end date and time. (do not include until unit starts) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| StartDate | O | DateTime | Actual start date and time. For multi-day units, the start time is on the first day. (Do not include until unit has started) |

| Element: ExtendedInfos /ExtendedInfo (0,N) | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| UI | | STARTERS | N/A | Element Expected:<br>Always where status is not START_LIST. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>##0 | Sent the number of competitors on the start list. |
| | **Sub Element: ExtendedInfos /ExtendedInfo /Extension<br>Expected: Always where status is not START_LIST.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | COMPLETE | | |
| | Pos | N/A | | |
| | Value | Numeric<br>##0 | Send the number of competitors whose event unit is completed (includes IRMs). | |
| UI | | LAST_QUAL | N/A | Element Expected:<br>Only for Individual Sprint and Team Sprint (all phases except final) |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(20) without leading zeroes | Send the last qualifying place competitor ID.<br>In the situation where insufficient competitors have participated to show the last qualifying position then show the current last place. |

| | | | | |
|---|---|---|---|---|
| UI | | PROVISIONAL | N/A | Element Expected:<br>Only if this is provisional start list in biathlon |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>0 | In Relay send 0<br>In Mass Start send the number of competitions that are complete (as used in header in ORIS). |
| UI | | RANGE | Numeric<br>#0 | Pos Description:<br>Send the shooting lane number (1..n).<br>Send all available shooting lanes.<br><br>Element Expected:<br>When applicable in biathlon.<br>For zeroing & range allocation.<br>Requires Competitor @Organisation. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(1) | Send P for Prone and S for Standing. |
| DISPLAY | | INT_x<br>(x = overall Intermediate Point, not LEG) | Numeric<br>0 | Pos Description:<br>Send a unique number for each competitor included (that is if two competitors updated send 1 & 2).<br><br>Element Expected:<br>When available and only when the unit is LIVE.<br>Each competitor is only sent once at each intermediate (athlete in team events). |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(20) without leading zeroes. | Send the competitor ID of the last competitor(s) to reach the intermediate point (including F). |

**Sample (ExtendedInfo)**

```
...
<ExtendedInfos>
 <UnitDateTime StartDate="2012-08-07T11:01:00+01:00" />
 <ExtendedInfo Type="UI" Code="STARTERS" Value="27" >
  <Extension Code="COMPLETE" Value="9" />
</ExtendedInfo> <ExtendedInfo Type="DISPLAY" Code="INT_2" Pos="1" Value="123456" />
...
```

**Sample (Biathlon)**

```
...
 <ExtendedInfos>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="1">
    <Competitor Organisation="NOR" /> </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="S" Pos="2">
    <Competitor Organisation="AUT" /> </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="3">
    <Competitor Organisation="CZE" /> </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="S" Pos="4">
    <Competitor Organisation="RUS" /> </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="5">
    <Competitor Organisation="CAN" /> </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="S" Pos="6">
    <Competitor Organisation="FRA" /> </ExtendedInfo>
  <ExtendedInfo Type="UI" Code="RANGE" Value="P" Pos="7">
   <Competitor Organisation="SLO" /> </ExtendedInfo>
...
```

**Element: ExtendedInfos /ExtendedInfo /Competitor (0,N)**

**Used for forerunners and similar who do not participate in the competition. Not usually part of DT_PARTIC.**

| Attribute | M/O | Value | Description |
|---|---|---|---|
| Organisation | O | CC @Organisation | Organisation ID |

**Element: ExtendedInfos /SportDescription (0,1)**

**Sport Descriptions in Text.**

| Attribute | M/O | Value | Description |
|---|---|---|---|
| DisciplineName | M | S(40) | Discipline name (not code) from Common Codes |
| EventName | M | S(40) | Event name (not code) from Common Codes |
| Gender | M | CC @DisciplineGender | Gender code for the event unit |
| SubEventName | O | S(40) | Text short description of the Event Unit, not code |

**Element: ExtendedInfos /VenueDescription (0,1)**

**Venue Names in Text.**

| Attribute | M/O | Value | Description |
|---|---|---|---|
| Venue | M | CC @VenueCode | Venue Code |
| VenueName | M | S(25) | Venue short name (not code) from Common Codes |
| Location | M | CC @Location | Location code |
| LocationName | M | S(30) | Location short name (not code) from Common Codes |

| **Element: Officials /Official (1,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Official's code |
| Function | M | CC @ResultsFunction | Officials Function |
| Order | O | Numeric | Order of officials. |

| **Element: Officials /Official /Description (1,1)**<br>**Officials extended information.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| GivenName | O | S(25) | Given name in WNPA format (mixed case) |
| FamilyName | M | S(25) | Family name in WNPA format (mixed case) |
| Gender | M | CC @PersonGender | Gender of the official |
| Organisation | M | CC @Organisation | Officials' organisation |

| **Element: Result (1,N)**<br>**For each Event Unit Results message, there must be at least one competitor with a result element in the event unit.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Rank | O | String | Rank of the competitor in the event unit |
| RankEqual | O | S(1) | Send 'Y' if the rank is equaled else do not send. |
| Result | O | h:mm:ss.ff<br>or<br>m:ss.f (for sprint events during the unit)<br>or<br>String | Time for the competitor except in mass start.<br>Do not send hours if not applicable.<br><br>For CCS Sprint Events, result times will be transmitted in tenths of seconds while ResultStatus is 'LIVE'. Result times format will change to hundredths of seconds for other status.<br>Clarification on the use of LAP (Lapped) and RAL (Ranked as Last competitor):<br>In CCS: LAP and RAL are Result Marks (RMs), not IRMs. LAP and RAL competitors receive a Rank. LAP |

| | | | |
|---|---|---|---|
| | | | or RAL value is sent when @ResultType is TIME.<br>In BTH: Only LAP is applicable. In Relay Events, LAP is an RM and is sent @Result when @ResultType is TIME. In Individual events, LAP is an IRM and is sent @IRM in combination to @ResultType=IRM |
| IRM | O | SC @IRM | IRM for the event unit.<br>Send only in the case @ResultType is IRM or IRM_TIME |
| QualificationMark | O | SC @QualificationMark | Send just in the case the competitor has qualified. (Sprint and Team Sprint) |
| SortOrder | M | Numeric<br>#0 | This attribute is a sequential number with the order of the results for the particular event unit, if they were to be presented. It is mostly based on the rank, but it should be used to sort out rank ties as well as results without rank. Prior to the unit the order is the same as StartSortOrder.<br>Updated during the race with the current order. |
| StartOrder | O | Numeric<br>#0 | Start order. |
| StartSortOrder | M | Numeric<br>#0 | Unique number for sorting the start list. |
| ResultType | O | SC @ResultType | Result type. |
| Diff | O | +m:ss.ff<br>or<br>+m:ss.fff (for sprint events during the unit) | Time behind the leader. Send 0.00 for the leader.<br>For Sprint Events, result times and diff will be transmitted in thousandths of seconds while ResultStatus is 'LIVE'. The format will change to hundredths of seconds for other status. |

| **Element: Result /ExtendedResults /ExtendedResult (1,N)** | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| PROGRESS | | INTERMEDIATE | S(2) | Pos Description:<br>Intermediate point where the intermediate time is recorded (1, 2...F).<br><br>Element Expected:<br>When data is available for individual events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | h:mm:ss.f | Cumulative time at the intermediate point in the current race. Do not send hours or minutes if zero. |

| | | | | |
|---|---|---|---|---|
| | ValueType | O | SC @ResultType | Send SC @ResultType. |
| | IRM | O | SC @IRM | IRM at the intermediate if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor at the intermediate point. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +h:mm:ss.f<br>or 0.0 | Send the time behind the leader in the unit at the point. Do not send hours or minutes if zero. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in interval start events.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | IDX_ARR | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Arrival order at the intermediate point | |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: If applicable.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | LAST | | |
| | Pos | N/A | | |
| | Value | S(1) | Send Y if this is the last (most recent) intermediate passed by the competitor) | |
| PROGRESS | | SECTION | S(2) | Pos Description:<br>Intermediate point at the end of the section where section time is taken (1, 2...F).<br>For example 1 is the section from the |

| | | | | |
|---|---|---|---|---|
| | | | | start to 1.<br>Element Expected:<br>When available in individual events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.ff | Time for the section ending at the intermediate point @Pos. |
| | ValueType | O | SC @ResultType | Send SC @ResultType. |
| | IRM | O | SC @IRM | IRM at the intermediate if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor in the section. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader in the section. Do not send hours or minutes if zero. |
| PROGRESS | | PRETIMING | S(2) | Pos Description:<br>Pretiming point where the intermediate time is recorded (1, 2...F).<br><br>Element Expected:<br>Only for Interval Start events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | h:mm:ss.f | Cumulative time at the pretiming point in the current race. Do not send hours or minutes if zero. |
| | ValueType | O | SC @ResultType | Send SC @ResultType. |
| | IRM | O | SC @IRM | IRM at the pretiming point if applicable. |

| | | | | |
|---|---|---|---|---|
| | Rank | O | S(2) | Send the rank of the competitor at the pretiming point. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +h:mm:ss.f<br>or 0.0 | Send the time behind the leader at the point. Do not send hours or minutes if zero. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in interval start events** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | IDX_ARR | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Arrival order at the pretiming point | |
| PROGRESS | | SHOOT | S(2) | Pos Description:<br>Shooting point (1, 2...n).<br><br>Element Expected:<br>Only in biathlon individual events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total time in this shooting point. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | IRM at the shooting point if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do |

| | | | |
|---|---|---|---|
| | | | not send. |
| SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader for this shooting point. Do not send minutes if zero. |

**Sub Element: Result /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon individual events.**

| Attribute | Value | Description |
|---|---|---|
| Code | ARRIVE | |
| Pos | N/A | |
| Value | h:mm:ss.f | Time of arrival at this shooting point. Do not send leading zeros. |

**Sub Element: Result /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon individual events.**

| Attribute | Value | Description |
|---|---|---|
| Code | DEPART | |
| Pos | N/A | |
| Value | h:mm:ss.f | Time of departure from this shooting point (after any penalty loops). Do not send leading zeros. |

**Sub Element: Result /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon individual events.**

| Attribute | Value | Description |
|---|---|---|
| Code | DEPART_DIFF | |
| Pos | N/A | |
| Value | +m:ss.f<br>or 0.0 | Send the time behind the leader at the departure of this shooting point. Do not send minutes if zero. |

**Sub Element: Result /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon individual events.**

| Attribute | Value | Description |
|---|---|---|
| Code | PENALTY | |
| Pos | N/A | |

| | | | | |
|---|---|---|---|---|
| | Value | Numeric<br>0 | Total penalties in this shoot (0..5). | |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon individual events.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | PENALTY_TIME | | |
| | Pos | N/A | | |
| | Value | m:ss.f<br>or 0.0 | Send the penalty time at this shooting point. | |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon individual events.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | PENALTY_TOT | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total penalties up to this point. | |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension<br>Expected: Expected: Only in biathlon individual events.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SHOT | | |
| | Pos | Numeric | The shot number within this time in the shooting range. | |
| | Value | S(1) | If the shot is successful then the number of the target hit, if there is a miss in this shot (@Pos) then 'M'. | |
| PROGRESS | | RANGE | S(2) | Pos Description:<br>Shooting point (1, 2...n).<br><br>Element Expected:<br>Only in biathlon individual events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Range time for this shoot. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send IRM code if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |

| | | | | |
|---|---|---|---|---|
| | | | | |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| PROGRESS | | LOOP | S(2) | Pos Description:<br>Loop (1, 2...n).<br><br>Element Expected:<br>Only in biathlon individual events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Time for this loop. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if IRM at this loop. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader for this loop. Do not send minutes if zero. |
| PROGRESS | | COURSE | S(2) | Pos Description:<br>Loop (1, 2...n).<br><br>Element Expected: |

| | | | | |
|---|---|---|---|---|
| | | | | Only in biathlon individual events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Course time for this loop. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if IRM at this loop (pos). |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| PROGRESS | | SKI | S(2) | Pos Description:<br>Loop (1, 2...n).<br><br>Element Expected:<br>Only in biathlon individual competition (20km M, 15km W). |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Ski time (regardless of penalties) for this loop. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if IRM at this loop (pos). |

| | | | | |
|---|---|---|---|---|
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| PROGRESS | | STYLE | S(2) | Pos Description:<br>Style or PitStop. Send C, F, or PS for Classical, Free or PitStop.<br><br>Element Expected:<br>Only for Skiathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | h:mm:ss.f | Result time of the style/stop. Do not send hours or minutes if zero. |
| | ValueType | O | SC @ResultType | Send SC @ResultType |
| | IRM | O | SC @IRM | IRM in the style. |
| | Rank | O | S(2) | Send the rank of the competitor in the style/stop. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +h:mm:ss.f<br>or 0.0 | Send the time behind the leader in the unit in the style. Do not send hours or minutes if zero. |
| ER | | PHOTO | N/A | Element Expected:<br>If applicable. |

| | Attribute | M/O | Value | Description |
|---|---|---|---|---|
| | Value | O | S(1) | To know if the competitor's final result was decided by photo.<br>Send Y for Evaluated, P for Pending, otherwise do not send<br>If pending then those pending competitors will not have rank but will still be sorted in the correct place (as well as is known).<br>For example: Rank = 1,,,4... and SortOrder = 1,2,3,4... |
| ER | | SHOOT_TOT | N/A | Element Expected:<br>Only in biathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total time shooting. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the shooting time behind the leader. Do not send minutes if zero. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | PENALTY | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total penalties in shooting for the competitor. | |

| | | | |
|---|---|---|---|
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon.** | | |
| | **Attribute** | **Value** | **Description** |
| | Code | PENALTY_TIME | |
| | Pos | N/A | |
| | Value | m:ss.f<br>or 0.0 | Send total shooting penalty time. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon relay for the team.** | | |
| | **Attribute** | **Value** | **Description** |
| | Code | PRONE | |
| | Pos | N/A | |
| | Value | Numeric<br>#0 | Total prone penalties in shooting for the competitor. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon relay for the team.** | | |
| | **Attribute** | **Value** | **Description** |
| | Code | PRONE_SPARE | |
| | Pos | N/A | |
| | Value | Numeric<br>#0 | Total used spare rounds in prone. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon relay for the team.** | | |
| | **Attribute** | **Value** | **Description** |
| | Code | SPARE | |
| | Pos | N/A | |
| | Value | Numeric<br>#0 | Total used spare rounds. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon relay for the team.** | | |
| | **Attribute** | **Value** | **Description** |
| | Code | STAND | |
| | Pos | N/A | |
| | Value | Numeric<br>#0 | Total standing penalties in shooting for the competitor. |
| | **Sub Element: Result /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon relay for the team.** | | |

| | Attribute | Value | Description | |
|---|---|---|---|---|
| | Code | STAND_SPARE | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total used spare rounds in standing. | |
| ER | | COURSE_TOT | N/A | Element Expected:<br>Only in biathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | h:mm:ss.f | Total course time. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| ER | | RANGE_TOT | N/A | Element Expected:<br>Only in biathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total range time. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |

| | | | | |
|---|---|---|---|---|
| | | | | |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| ER | | SKI_TOT | N/A | Element Expected:<br>Only in biathlon individual. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total ski time. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| | | RAW | N/A | Element Expected: |

| | | | | |
|---|---|---|---|---|
| ER | | | | Only in biathlon pursuit. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | h:mm:ss.f | Raw total time (without start behind time, i.e. the different between finishing time and start behind time). Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind. Do not send minutes if zero. |
| ER | | TIME_ADJUST | S(2) | Pos Description:<br>Send the Shooting No. at which the time needed to be adjusted or '0' if adjusted from the start.<br><br>Element Expected:<br>If applicable in biathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Send the time adjustment (- or +). Do not send minutes if zero. |
| ER | | POT_DSQ | N/A | Element Expected:<br>If applicable. |

| | | | | |
|---|---|---|---|---|
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(1) | Send 'Y' if the competitor is a potential disqualification, time adjustment or protest in this unit else do not send. |
| ER | | IRM_RULE | N/A | Element Expected:<br>If applicable. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | String | Send rule number if disqualified or for the time adjustment in Biathlon. |
| ER | | IRM_RULE_TEXT | N/A | Element Expected:<br>If applicable. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | String | Send rule description if disqualified. |
| ER | | TIME_PENALTY | N/A | Element Expected:<br>CCS: Interval start Events as an effect of a false start. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(2) | Time penalty sanction received in seconds as an effect of a false start. |
| ER | | SANCTION | Numeric<br>0 | Pos Description:<br>Distinguish the sanctions if more than one. Order of importance for the sanction.<br>Element Expected:<br>When there is a description available for a jury decision. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | String | Text to describe a jury decision. Some examples are<br>'Written reprimand - Technical violation'<br>'Yellow card - False start'<br>'Ranked as last - Obstruction' |

**Sample (Cross Country)**

```
...
<Result SortOrder="1" ResultType="TIME" Rank="1" Result="1:08:15.4" StartOrder="12" StartSortOrder="12" Diff="0.0">
        <ExtendedResults>
                <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="1" ValueType="TIME" Value="3:56.3" Diff="+5.1" Rank="11" RankEqual="Y" SortOrder="12" />
                <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="2" ValueType="TIME" Value="9:11.6" Diff="+1.5" Rank="5" SortOrder="5" />
                <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="3" ValueType="TIME" Value="13:02.3" Diff="+3.0" Rank="7" SortOrder="7" />
  ...
                <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="F" ValueType="TIME" Value="1:08:15.4" Diff="0.0" Rank="1" SortOrder="1" />
  ...
                <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="1" ValueType="TIME" Value="3:56.3" Diff="+5.1" Rank="11" RankEqual="Y" SortOrder="12" />
                <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="2" ValueType="TIME" Value="5:15.3" Diff="+3.8" Rank="15" SortOrder="15" />
                <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="3" ValueType="TIME" Value="3:50.7" Diff="+5.2" Rank="22" SortOrder="22" />
  ...
                <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="F" ValueType="TIME" Value="4:55.9" Diff="0.0" Rank="1" SortOrder="1" />
                <ExtendedResult Type="PROGRESS" Code="STYLE" Pos="C" ValueType="TIME" Value="36:04.9" Diff="+5.7" Rank="13" SortOrder="13" />
                <ExtendedResult Type="PROGRESS" Code="STYLE" Pos="PS" ValueType="TIME" Value="30.9" Diff="+2.1" Rank="15" RankEqual="Y" SortOrder="16" />
                <ExtendedResult Type="PROGRESS" Code="STYLE" Pos="F" ValueType="TIME" Value="31:39.6" Diff="+2.9" Rank="2" SortOrder="2" />
        </ExtendedResults>
        <Competitor Code="2040363" Type="A" Organisation="NED" >
                <Composition>
                        <Athlete Code="2040363" Bib="21" Order="1">
                                <Description GivenName="John" FamilyName="Brown" Gender="M" Organisation="NED" BirthDate="1994-11-15" />
                        </Athlete>
                </Composition>
        </Competitor>
</Result>
...
```

**Sample (Biathlon)**

```
<Result SortOrder="2" ResultType="TIME" Rank="2" Result="24:34.8" Diff="1.3" StartOrder="5" StartSortOrder="5" >
        <ExtendedResults>
                <ExtendedResult Type="ER" Code="SHOOT_TOT" ValueType="TIME" Value="58.0" Diff="2.9" Rank="8" >
                        <Extension Code="PENALTY" Value="0" />
                        <Extension Code="PENALTY_TIME" Value="17.8" />
                </ExtendedResult>
                <ExtendedResult Type="PROGRESS" Code="LOOP" ValueType="TIME" Value="8:41.8" Pos="1" Diff="23.9" Rank="14" RankEqual="Y" SortOrder="15" />
                <ExtendedResult Type="ER" Code="COURSE_TOT" ValueType="TIME" Value="22:45.3" Diff="9.4" Rank="4" SortOrder="4" />
                <ExtendedResult Type="PROGRESS" Code="COURSE" ValueType="TIME" Value="7:45.7" Pos="1" Diff="17.1" Rank="16" SortOrder="16" />
                <ExtendedResult Type="PROGRESS" Code="PRETIMING" ValueType="TIME" Value="2:33.2" Pos="1" Diff="6.3" Rank="22" RankEqual="Y" SortOrder="22" >
                        <Extension Code="IDX_ARR" Value="15" />
                </ExtendedResult>
                <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" ValueType="TIME" Value="4:47.2" Pos="1" Diff="7.4" Rank="12" SortOrder="12" >
                        <Extension Code="IDX_ARR" Value="15" />
                </ExtendedResult>
                ....
                  <ExtendedResult Type="PROGRESS" Code="SECTION" ValueType="TIME" Value="2:57.2" Pos="F" Diff="0.0" Rank="1" SortOrder="1" />
                </ExtendedResults>
        <ExtendedResult Type="PROGRESS" Code="SHOOT" Value="28.0" Pos="2" SortOrder="53" Rank="52" RankEqual="Y" Diff="+6.3" ValueType="TIME">
           <Extension Code="PENALTY" Value="1" />
           <Extension Code="PENALTY_TOT" Value="2" />
           <Extension Code="PENALTY_CUM" Value="2" />
           <Extension Code="PENALTY_TIME" Value="28.8" />
           <Extension Code="ARRIVE" Value="15:46.1" />
           <Extension Code="DEPART" Value="17:03.9" />
           <Extension Code="DEPART_DIFF" Value="+53.7" />
           <Extension Code="SHOT" Pos="1" Value="5" />
           <Extension Code="SHOT" Pos="2" Value="4" />
           <Extension Code="SHOT" Pos="3" Value="M" />
           <Extension Code="SHOT" Pos="4" Value="2" />
           <Extension Code="SHOT" Pos="5" Value="M" />
     </ExtendedResult>
                <Competitor Code="2023687" Type="A">
                        <Composition>
                                <Athlete Code="2023687" Bib="15" Order="1" Organisation="GER" >
                                        <Description GivenName="John" FamilyName="Smith" Gender="M" Organisation="GER" BirthDate="1994-12-15" />
                                </Athlete>
                        </Composition>
                </Competitor>
</Result>
```

| **Element: Result /Competitor (1,1)**<br>**Competitor related to the result of one event unit.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Competitor ID |
| Type | M | S(1) | T for team, A for athlete |
| Bib | O | S(5) | Bib number for the team |
| Organisation | O | CC @Organisation | Organisation ID. |

| **Element: Result /Competitor /Description (0,1)**<br>**Competitors extended information.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| TeamName | M | S(73) | Name of the team. Only applies for teams / groups. |

| **Element: Result /Competitor /EventUnitEntry (0,N)**<br>**For team event information** | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| EUE | | FIS_PTS | N/A | Element Expected:<br>Cross Country Team sprint. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>###0.00 | Team FIS points. |
| EUE | | START_GROUP | N/A | Element Expected:<br>Always. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>##0 | Start row. |

| **Element: Result /Competitor /Composition /Athlete (1,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Athlete's ID. |
| Order | M | Numeric | Order attribute used to sort team members in a team (if Competitor @Type="T") on the results or 1 if |

| | | | |
|---|---|---|---|
| | | | Competitor @Type="A". |
| Bib | O | S(5) | Bib number<br>Numeric for individuals.<br>##0-0 for team members. |

| **Element: Result /Competitor /Composition /Athlete /Description (1,1)**<br>**Athletes extended information.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| GivenName | O | S(25) | Given name in WNPA format (mixed case) |
| FamilyName | M | S(25) | Family name in WNPA format (mixed case) |
| Gender | M | CC @PersonGender | Gender of the athlete |
| Organisation | M | CC @Organisation | Athletes' organisation |
| BirthDate | O | Date | Birth date (example: YYYY-MM-DD). Must include if the data is available |
| IFId | O | S(16) | International Federation ID |

| **Element: Result /Competitor /Composition /Athlete /EventUnitEntry (0,N)**<br>**Individual athletes entry information.** | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| EUE | | FIS_PTS | S(1) | Pos Description:<br>In case of Team Sprint only send D for distance points or S for sprint points.<br><br>Element Expected:<br>Send if FIS points (or 'seeded') in the case of interval start, sprint, mass start and Skiathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>###0.00 | FIS points. |
| EUE | | START_GROUP | N/A | Element Expected:<br>Individual mass start races and biathlon pursuit and individual. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>##0 | Start lane, row or group. |

| | | | | |
|---|---|---|---|---|
| EUE | | START_TIME | N/A | Element Expected:<br>Races with interval start. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | hh:mm:ss | Start time. |
| EUE | | HCP_TIME | N/A | Element Expected:<br>Biathlon pursuit. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss | Handicap time or start behind time. |
| EUE | | WAVE | N/A | Element Expected:<br>If the competitor is in a wave start. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss | Time of the wave start for the competitor if applicable. |
| EUE | | LEG_BIB | N/A | Element Expected:<br>All team events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>0 | Leg number of the Team member. For Team Sprint provide number of the first leg (1 or 2).<br>For Relay should be 1,2,3,4. |
| EUE | | COLOUR | N/A | Element Expected:<br>All team events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(1) | Bib colour ('b', 'g', 'r' or 'y'). |
| EUE | | TECHNIQUE | N/A | Element Expected:<br>Cross Country Relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(1) | Skiing Technique ('C' or 'F'). |

| | | | | |
|---|---|---|---|---|
| EUE | | QUAL_GROUP | N/A | Element Expected:<br>Biathlon Mass Start. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | SC @MassGroup | Send applicable code. |
| EUE | | RANK_WLD | N/A | Element Expected:<br>Biathlon Mass Start. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>##0 | World Cup Rank. |
| EUE | | OG_PTS | N/A | Element Expected:<br>Biathlon Mass Start. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>##0 | Olympic Games Points. |
| EUE | | YC | N/A | Element Expected:<br>CCS only if data exists. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(1) | 'Y' if the athlete receives a yellow card during the current race, otherwise do not send. |
| EUE | | PREVIOUS_YC | N/A | Element Expected:<br>CCS only if data exists. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(1) | 'Y' if the athlete has a yellow card from a previous race, otherwise do not send. |

| **Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult (1,N)**<br>**Team member or individual athlete's extended result.** | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| PROGRESS | | INTERMEDIATE | S(2) | Pos Description:<br>Intermediate point where the intermediate time is recorded (1, 2...F).<br>Element Expected:<br>When data is available in team events. |
| | **Attribute** | **M/O** | **Value** | **Description** |

| | | | | |
|---|---|---|---|---|
| | Value | O | h:mm:ss.f | Cumulative time at the intermediate point in the current race. Do not send hours or minutes if zero. |
| | ValueType | O | SC @ResultType | Send SC @ResultType. |
| | IRM | O | SC @IRM | IRM at the intermediate if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor at the intermediate point. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +h:mm:ss.f<br>or 0.0 | Time/Points etc behind leader at this ExtendedResult |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: If applicable. A maximum of one athlete per team has the flag at one time.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | LAST | | |
| | Pos | N/A | | |
| | Value | S(1) | Send 'Y' if this is the last (most recent) intermediate passed by the athlete). | |
| PROGRESS | | SECTION | S(2) | Pos Description:<br>Intermediate point at the end of the section where section time is taken (1, 2...F).<br>For example 1 is the section from the start to 1.<br>Element Expected:<br>When data is available in team events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.ff | Time for the section ending at the intermediate point @Pos. |
| | ValueType | O | SC @ResultType | Send SC @ResultType |

| | | | | |
|---|---|---|---|---|
| | IRM | O | SC @IRM | IRM at the intermediate if applicable. |
| | Rank | O | S(2) | Send the rank of the competitor in the section. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the competitor considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader in the section. Do not send hours or minutes if zero. |
| PROGRESS | | LEG_SPLIT | S(2) | Pos Description:<br>Identifies the leg or round, from 1 to the total number of legs (relay) or rounds (team sprint).<br>Element Expected:<br>When data is available in team events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Leg time in the @Pos leg or round for the team member in the leg (relay) or round (team sprint). It is not cumulative. |
| | ValueType | O | SC @ResultType | Send SC @ResultType. |
| | IRM | O | SC @IRM | IRM at the intermediate if applicable. |
| | Rank | O | S(2) | Rank @Pos in the leg or round for the team member in the leg (relay) or round (team sprint). |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the team member in the leg (relay) or round (team sprint).considering equals and IRMs. |

| | | | | |
|---|---|---|---|---|
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader in the unit at the split. |
| PROGRESS | | SHOOT | N/A | Element Expected:<br>Only in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total time in this shooting point for the athlete. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable in this shooting point. |
| | Rank | O | S(2) | Send the rank of the athlete based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader for this shooting point. Do not send minutes if zero. |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon relay.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | ARRIVE | | |
| | Pos | N/A | | |
| | Value | h:mm:ss.f | Time of arrival at this shooting point. Do not send leading zeros. | |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon relay.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | DEPART | | |
| | Pos | N/A | | |
| | Value | h:mm:ss.f | Time of departure from this shooting point. Do not send leading | |

| | | | |
|---|---|---|---|
| | | | zeros. |
| **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon relay.** | | | |
| **Attribute** | **Value** | **Description** | |
| Code | DEPART_DIFF | | |
| Pos | N/A | | |
| Value | +m:ss.f<br>or 0.0 | Send the team time behind the leader at the departure of this shooting point. Do not send minutes if zero. | |
| **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon relay.** | | | |
| **Attribute** | **Value** | **Description** | |
| Code | PENALTY | | |
| Pos | N/A | | |
| Value | Numeric<br>0 | Total penalties in this shoot (0...5). | |
| **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon relay.** | | | |
| **Attribute** | **Value** | **Description** | |
| Code | PENALTY_CUM | | |
| Pos | N/A | | |
| Value | Numeric<br>#0 | Total penalties for the team up to this point. | |
| **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon relay.** | | | |
| **Attribute** | **Value** | **Description** | |
| Code | PENALTY_TIME | | |
| Pos | N/A | | |
| Value | m:ss.f<br>or 0.0 | Send the penalty time at this shooting point. | |
| **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension<br>Expected: Only in biathlon relay.** | | | |
| **Attribute** | **Value** | **Description** | |
| Code | PENALTY_TOT | | |
| Pos | N/A | | |
| Value | Numeric | Total penalties up to this point. | |

| | | | | |
|---|---|---|---|---|
| | | #0 | | |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension Expected: Expected: Only in biathlon relay.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SHOT | | |
| | Pos | Numeric | The shot number within this time in the shooting range. | |
| | Value | S(1) | If the shot is successful then the number of the target hit, if there is a miss in this shot (@Pos) then 'M'. | |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension Expected: Only in biathlon relay.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SPARE | | |
| | Pos | N/A | | |
| | Value | Numeric<br>0 | Total spare rounds used in this shoot. | |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension Expected: Only in biathlon relay.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SPARE_CUM | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total spare rounds used by the team up to this point. | |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension Expected: Only in biathlon relay.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SPARE_TOT | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total spare rounds used up to this point. | |
| PROGRESS | | RANGE | S(2) | Pos Description:<br>Shooting point (1, 2...n).<br>Element Expected:<br>Only in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Range time for this shoot. Do not send leading zeros. |

| | | | | |
|---|---|---|---|---|
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable at this shooting point. |
| | Rank | O | S(2) | Send the rank based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| PROGRESS | | LOOP | S(2) | Pos Description:<br>Loop (1, 2, ...n).<br>Element Expected:<br>Only in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Time for this loop. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable at this loop. |
| | Rank | O | S(2) | Send the rank based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the athlete considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader for this loop. Do not send minutes if zero. |
| PROGRESS | | COURSE | S(2) | Pos Description:<br>Loop (1, 2, ...n). |

| | | | | |
|---|---|---|---|---|
| | | | | Element Expected:<br>Only in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Course time for this loop. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable at this loop. |
| | Rank | O | S(2) | Send the rank of the athlete based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort the athlete considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| ER | | SHOOT_TOT | N/A | Element Expected:<br>Only in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total time shooting. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable. |
| | Rank | O | S(2) | Send the rank based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric | Index based on the Rank to sort |

| | | | |
|---|---|---|---|
| | | #0 | considering equals and IRMs. |
| Diff | O | +m:ss.f<br>or 0.0 | Send the shooting time behind the leader. Do not send minutes if zero. |

**Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon.**

| Attribute | Value | Description |
|---|---|---|
| Code | PENALTY | |
| Pos | N/A | |
| Value | Numeric<br>0 | Total penalties in shooting for the athlete. |

**Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon.**

| Attribute | Value | Description |
|---|---|---|
| Code | PENALTY_TIME | |
| Pos | N/A | |
| Value | m:ss.f<br>or 0.0 | Send total shooting penalty time. |

**Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon relay for the team.**

| Attribute | Value | Description |
|---|---|---|
| Code | PRONE | |
| Pos | N/A | |
| Value | Numeric<br>#0 | Total prone penalties in shooting for the athlete. |

**Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension**
**Expected: Only in biathlon relay for the team.**

| Attribute | Value | Description |
|---|---|---|
| Code | PRONE_SPARE | |
| Pos | N/A | |
| Value | Numeric<br>#0 | Total used spare rounds in prone. |

**Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension**

| | | | | |
|---|---|---|---|---|
| | **Expected: Only in biathlon relay for the team.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SPARE | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total used spare rounds. | |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon relay for the team.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | STAND | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total standing penalties in shooting for the athlete. | |
| | **Sub Element: Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extension**<br>**Expected: Only in biathlon relay for the team.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | STAND_SPARE | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Total used spare rounds in standing. | |
| ER | | COURSE_TOT | N/A | Element Expected:<br>Only in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | h:mm:ss.f | Total course time. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME) |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable. |
| | Rank | O | S(2) | Send the rank based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort considering equals and IRMs. |

| | | | | |
|---|---|---|---|---|
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| ER | | RANGE_TOT | N/A | Element Expected:<br>Only in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total range time. Do not send leading zeros. |
| | ValueType | O | SC @ResultType | Send SC @ResultType (TIME/ IRM/ IRM_TIME). |
| | IRM | O | SC @IRM | Send appropriate IRM code if applicable. |
| | Rank | O | S(2) | Send the rank of the athlete based on @Value. |
| | RankEqual | O | S(1) | Send 'Y' if rank is equaled, otherwise do not send. |
| | SortOrder | O | Numeric<br>#0 | Index based on the Rank to sort considering equals and IRMs. |
| | Diff | O | +m:ss.f<br>or 0.0 | Send the time behind the leader. Do not send minutes if zero. |
| ER | | TIME_ADJUST | S(2) | Pos Description:<br>Send intermediate point where the time was adjusted.<br>Element Expected:<br>If applicable in biathlon relay. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.f | Total range time. Do not send leading zeros. |
| ER | | TIME_PENALTY | N/A | Element Expected:<br>CCS: Interval start Events as an effect of a false start. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(2) | Time penalty sanction received in |

| | | | | |
|---|---|---|---|---|
| | | | | seconds as an effect of a false start |
| ER | | SANCTION | Numeric<br>0 | Pos Description:<br>Distinguish the sanctions if more than one. Order of importance for the sanction.<br>Element Expected:<br>When there is a description available for a jury decision. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | String | Text to describe a jury decision. Some examples are<br>'Written reprimand - Technical violation'<br>'Yellow card - False start'<br>'Ranked as last - Obstruction' |

**Sample (Cross Country)**

```
...
<Result SortOrder="1" ResultType="TIME" Rank="1" Result="53:02.7" Diff="0.0" StartOrder="10" StartSortOrder="10" >
        <Competitor Code="CCSW4X5KM---SWE01" Bib="2" Type="T" Organisation="SWE" >
                <Description TeamName="Sweden" />
                <Composition>
                        <Athlete Bib="2-1" Code="2019490" Order="1">
                                <Description GivenName="John" FamilyName="Brown" Gender="M" Organisation="NED" BirthDate="1994-11-15" />
                                <ExtendedResults>
                                        <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="1" ValueType="TIME" Value="4:23.3" Diff="+1.3" Rank="5" SortOrder="5" />
                                        <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="2" ValueType="TIME" Value="6:56.8" Diff="+1.3" Rank="7" SortOrder="7" />
                                        <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="3" ValueType="TIME" Value="11:29.6" Diff="+0.4" Rank="2" SortOrder="2" />
                                        <ExtendedResult Type="PROGRESS" Code="INTERMEDIATE" Pos="F" ValueType="TIME" Value="14:09.8" Diff="+4.3" Rank="3" SortOrder="3" />
                                        <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="1" ValueType="TIME" Value="4:23.3" Diff="+1.3" Rank="5" SortOrder="5" />
                                        <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="2" ValueType="TIME" Value="2:33.5" Diff="+1.8" Rank="7" RankEqual="Y" SortOrder="7" />
...
                                        <ExtendedResult Type="PROGRESS" Code="SECTION" Pos="F" ValueType="TIME" Value="2:40.2" Diff="+5.9" Rank="4" SortOrder="4" />
                                        <ExtendedResult Type="PROGRESS" Code="LEG_SPLIT" Pos="1" ValueType="TIME" Value="14:09.8" Diff="+4.3" Rank="3" SortOrder="3" />
                                </ExtendedResults>
                        </Athlete>
...
```

#### 2.2.3.6 Message Sort

Sort by Result @SortOrder

### 2.2.4 Current Information

#### 2.2.4.1 Description

The Current message is a message containing the current information for a competition which is live. The message is used to send the latest applicable information.

#### 2.2.4.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC | Sent according to the ODF Common Codes document (header values) with one message per unit. For CCS Sprint Events DocumentCode is at phase level. |
| DocumentSubcode | N/A | Not used in BTH / CCS |
| DocumentType | DT_CURRENT | Current message |
| DocumentSubtype | N/A | Not used in BTH / CCS |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction. |

| | | |
|---|---|---|
| | | Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

### 2.2.4.3 Trigger and Frequency

- At any time a competitor starts in interval start events as there will be a new 'next' (unless last athlete).
- Whenever the competitor most advanced on the course reaches a new intermediate point.
- As soon as the leading team starts a new leg in a team event.
- As soon as any competitor enters or departs from the range (biathlon)
- Send some seconds before the first athlete starts in individual starts, so the start of the first athlete is covered in time. The first athlete will be sent as NEXT athlete in the first message.

In CCS, Sprint Events, Elimination phases.
- Send before the beginning of each Heat except from first Heat in the Phase with current lucky losers data.
- Send at the end of each Heat with the updated current lucky losers data.
- Do not send at final Heat as current lucky losers data is not applicable.

### 2.2.4.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
|---|---|---|---|---|---|
| Competition (0,1) | | | | | |
| | ExtendedInfos (0,1) | | | | |
| | | ExtendedInfo (1,N) | | | |
| | | | Type | | |
| | | | Code | | |
| | | | Pos | | |
| | | | Value | | |
| | | | Extension (0,N) | | |
| | | | | Code | |
| | | | | Pos | |
| | | | | Value | |
| | Result (0,N) | | | | |
| | | Result | | | |
| | | SortOrder | | | |

StartSortOrder
ResultType
ExtendedResults (0,1)
ExtendedResult (1,N)
Type
Code
Pos
Value
Competitor (1,N)
Code
Type
Bib
Organisation
Composition (0,1)
Athlete (1,N)
Code
Order
Bib

### 2.2.4.5 Message Values

| Element: ExtendedInfos /ExtendedInfo (1,N) | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| DISPLAY | | NEXT | N/A | Element Expected:<br>In interval start events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(20) without leading zeroes | Send the competitor ID of the next competitor to start. |
| DISPLAY | | STARTED | N/A | Element Expected:<br>In intervals and pursuit starts only. Send only once for each competitor. |
| | **Attribute** | **M/O** | **Value** | **Description** |

| | | | | |
|---|---|---|---|---|
| | Value | O | S(20) without leading zeroes | Send the competitor ID of the competitor most recently started. |
| DISPLAY | | CURR_LEG | N/A | Element Expected:<br>Team Sprint and Relay events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>0 | Current Leg reached by the leading competitor updated at the exchange. |
| DISPLAY | | CURR_INTERMEDIATE | N/A | Element Expected:<br>All events with intermediate points. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(2) | Most recent intermediate point reached by the first competitor (1,2,3,..F).<br>Finish line is considered as an intermediate point.<br>The value should be according to the Pos defined in the INTERMEDIATES of the DT_CONFIG message. For Relays it starts with 1 in leg 1, and finish with F in the last intermediate of the last leg. |
| DISPLAY | | CURR_SHOOT | Numeric<br>0 | Pos Description:<br>Send the shooting position number.<br>In the case of relay it is the overall shooting number for the team.<br>Element Expected:<br>In biathlon events for every competitor in the range. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(20) without leading zeroes | Send the competitor ID of the each athlete in the range. |
| | **Sub Element: ExtendedInfos /ExtendedInfo /Extension**<br>**Expected: In biathlon events for every competitor in the range.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | LANE | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Lane number chosen by the athlete. | |
| | | LL_TIME_TO_BEAT | N/A | Element Expected: |

| UI | | | | CCS: Individual Sprint Events, elimination phases except first Heat of the Phase. |
|---|---|---|---|---|
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | m:ss.fff | Last lucky loser time to beat before the start of the Heat. |

**Sample (Overall)**

```
...
<ExtendedInfos>
 <ExtendedInfo Type="DISPLAY" Code="NEXT" Value="123456" />
 <ExtendedInfo Type="DISPLAY" Code="CURR_INTERMEDIATE" Value="3" />
 <ExtendedInfo Type="DISPLAY" Code="CURR_SHOOT" Pos="1" Value="1234562" >
  <Extension Code="LANE" Value="12" />
 </ExtendedInfo>
 <ExtendedInfo Type="DISPLAY" Code="CURR_SHOOT" Pos="1" Value="1234563" >
  <Extension Code="LANE" Value="5" />
 </ExtendedInfo> <ExtendedInfo Type="DISPLAY" Code="CURR_SHOOT" Pos="1" Value="1234564" >
  <Extension Code="LANE" Value="2" />
 </ExtendedInfo>
</ExtendedInfos>
...
```

| **Element: Result (0,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Result | O | h:mm:ss.fff | Time for the competitor in the Heat. |
| SortOrder | M | Numeric<br>#0 | Sort order of the current lucky losers. Use '1' for the faster lucky loser, '2' for the second faster lucky loser, etc. |
| StartSortOrder | M | Numeric | N/A for CCS. |
| ResultType | O | SC @ResultType | Type of the @Result attribute. |

| **Element: Result /ExtendedResults /ExtendedResult (1,N)** | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| ER | | SPARE_TOT | N/A | Element Expected:<br>Biathlon relay events.<br>(athlete message) |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0 | Total number of spare rounds used by the athlete in the unit.<br>(all spare rounds of completed shooting sessions, not including active shooting |

| | | | | |
|---|---|---|---|---|
| | | | | sessions). |
| ER | | PENALTY | Numeric<br>0 | Pos Description:<br>Shoot number.<br>In the case of relay it is the overall shooting number for the team.<br>Element Expected:<br>Biathlon events.<br>(athlete message) |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>0 | Number of penalties for the athlete at this shooting point once the shooting session is terminated, not during a shooting session itself. |
| ER | | SPARE | Numeric<br>0 | Pos Description:<br>Shoot number.<br>In the case of relay it is the overall shooting number for the team.<br>Element Expected:<br>Biathlon relay events.<br>(athlete message) |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(2) | Number of spare rounds used by the athlete at this shooting point once the shooting session is terminated, not during a shooting session itself. |
| ER | | LL | 1,2 | Pos Description:<br>Current lucky loser order.<br>Element Expected:<br>In CCS Sprint events, elimination Phase except Final Heat. Only before each Heat except from first Heat in the Phase. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(Y) | Send Y if the competitor is a lucky loser. |

**Sample (Biathlon)**

```
...
<ExtendedInfos>
        <ExtendedInfo Type="UI" Code="SHOOT" Value="1" />
</ExtendedInfos>
<Actions>
        <Action Id="324" Period="1" Order="1" When="1" Result="H" Loc="5" />
        <Action Id="536" Period="1" Order="2" When="2" Result="H" Loc="4" />
        <Action Id="628" Period="1" Order="3" When="3" Result="M" />
        <Action Id="728" Period="1" Order="4" When="4" Result="H" Loc="3" />
    <Action Id="611" Period="2" Order="7" When="2" Result="H" Loc="1" />
</Actions>
<Result ResultType="PENALTY" Result="0" SortOrder="1" StartSortOrder="1" >
        <ExtendedResults>
                <ExtendedResult Type="ER" Code="PENALTY" Pos="1" Value="0" />
        </ExtendedResults>
        <Competitor Code="1234567" Type="A" Organisation="GER">
                <Composition>
                        <Athlete Code="1234567" Bib="24" Order="1" />
                </Composition>
        </Competitor>
</Result>
...
```

| **Element: Result /Competitor (1,N)**<br>**Competitor related to the result of one event unit.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Competitor's ID |
| Type | M | T,A | T for team, A for athlete |
| Bib | O | S(5) | Bib number for the team |
| Organisation | M | CC @Organisation | Competitor's organisation ID |

| **Element: Result /Competitor /Composition /Athlete (1,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Athlete's ID. |
| Order | M | Numeric | Order attribute used to sort team members in a team (if Competitor @Type='T'") on the results or 1 if Competitor @Type='A. |
| Bib | O | S(5) | Bib number<br>Numeric for individuals. |

| | | | |
|---|---|---|---|
| | | | ##0-0 for team members. |

### 2.2.4.6 Message Sort

Not applicable
In CCS, Sprint Events, elimination phases only:
Use @SortOrder

## 2.2.5 Image

### 2.2.5.1 Description

The Image message is a message containing an image or images file(s) in .jpg or .png format encapsulated in a XML message.

The type of image may vary from discipline to discipline and could be a photofinish image or some other type of image to support the results of the discipline.

The message allows for multiple images but it is assumed the images are related (could be different resolutions, different states of a competition or different places in photofinish photos) hence only one description. Unrelated images should be sent separately.

When the DocumentSubtype is PHOTOFINISH then no extensions are to be used to have all disciplines use the same structure.

### 2.2.5.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC | Sent according to the ODF Common Codes document (header values). DocumentCode: Unit level RSC. |
| DocumentSubcode | S(10) | Picture number. |
| DocumentType | DT_IMAGE | Image message |
| DocumentSubtype | S(20) | PHOTOFINISH |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| ResultStatus | SC @ResultStatus | Only applicable status is OFFICIAL |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day |

| | | |
|---|---|---|
| | | except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction.<br><br>Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

### 2.2.5.3 Trigger and Frequency

Triggered as soon as image available.

### 2.2.5.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 |
|---|---|---|---|---|---|---|---|
| Competition (0,1) | | | | | | | |
| | Image (1,N) | | | | | | |
| | | Pos | | | | | |
| | | Version | | | | | |
| | | Revision | | | | | |
| | | ImageType | | | | | |
| | | Result (0,N) | | | | | |
| | | | Result | | | | |
| | | | Rank | | | | |
| | | | StartOrder | | | | |
| | | | SortOrder | | | | |
| | | | Competitor (1,1) | | | | |
| | | | | Code | | | |
| | | | | Type | | | |

Organisation
Description (0,1)
TeamName
Composition (0,1)
Athlete (1,N)
Code
Order
Bib
Description (1,1)
GivenName
FamilyName
ImageData (1,1)
-

### 2.2.5.5 Message Values

| Element: Competition /Image (1,N) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Pos | M | Numeric<br>#0 | Used as differentiator if there are multiple images in the message. |
| Version | M | Numeric<br>#0 | Document Version |
| Revision | M | Numeric<br>#0 | Document Revision |
| ImageType | M | S(3) | Image type extension, jpg or png |

| Element: Competition /Image /Result (0,N) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Result | O | S(20) | Result of the competitor in the image. Formatted as appropriate in the event. Use IRM code if appropriate. |
| Rank | O | S(10) | Rank of the competitor |
| StartOrder | O | S(4) | Start or lane position |
| SortOrder | M | Numeric<br>###0 | This attribute is a sequential number with the order of the competitors in the image. |

| Element: Competition /Image /Result /Competitor (1,1) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | O | S(20) with no leading zeroes | Competitor's ID (Team or individual)<br>If it is possible to send the ID it should be included. |
| Type | M | S(1) | A for athlete or T for team |
| Organisation | O | CC @Organisation | Competitor's organisation |

| Element: Competition /Image /Result /Competitor /Description (0,1) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| TeamName | O | S(73) | Name of the Team |

| Element: Competition /Image /Result /Competitor /Composition /Athlete (1,N)<br>Only sent in the case of individual events. Team members are not sent in team events. | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | O | S(20) with no leading zeroes | Athlete's ID.<br>If it is possible to send the ID it should be included. |
| Order | M | Numeric<br>##0 | Order attribute used to sort team members in a team.<br>Send 1 for individuals.<br>1 will always be sent in PyeongChang |
| Bib | O | S(5) | Bib number |

| Element: Competition /Image /Result /Competitor /Composition /Athlete /Description (1,1) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| GivenName | O | S(25) | Given name (Photofinish Name) |
| FamilyName | M | S(25) | Family name (Photofinish Name) |

| Element: Competition /Image /ImageData (1,1) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| - | M | Free Text | The ImageData element has a body consisting of one Base64-encoded report (a jpeg or png file) |

### 2.2.5.6 Message Sort

Sort by Competition /Image /Pos and SortOrder within image.

## 2.2.6 Brackets

### 2.2.6.1 Description

The Brackets message contains the brackets information for one particular event. It is used in events where there is a necessity to know in advance how successive event units will be filled as the competition progresses. In the early stages of the competition, it indicates how each of the event units will be built from the winners/losers, or other competition rules of the previous event units.

### 2.2.6.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC (event level) | Sent according to the ODF Common Codes document (header values) for the corresponding competition events. |
| DocumentType | DT_BRACKETS | Brackets message |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| ResultStatus | SC @ResultStatus | Status of the message. Expected statuses are:<br>START_LIST ( during the athlete selection of heats -at the start and during selection-)<br>INTERMEDIATE (during the competition)<br>UNCONFIRMED (when last match unconfirmed)<br>UNOFFICIAL (when last match unofficial)<br>OFFICIAL (when all matches official) |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2). |

| | | |
|---|---|---|
| | | The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction.<br><br>Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

### 2.2.6.3 Trigger and Frequency

This message should be sent at the very beginning of a competition, as soon as brackets are available.

Send when a match/event unit is completed, including Unconfirmed, Unofficial and Official status. Therefore it is triggered up to three times (with both status) for each event unit (if unofficial is used). The message should be updated including information on each competitor in the different bracket items.

During the athlete selection of heats the message is sent as START_LIST (at the start and during selection).

The @ResultStatus attribute will vary depending on the competition status.

- Send with ResultStatus = 'START_LIST' if no units are complete
- Send with ResultStatus = 'INTERMEDIATE' until the last event unit (Gold Medal Match) is Unofficial (i.e. for all event units up until the Gold Medal match is completed for an event)
- Send with ResultStatus = 'UNCONFIRMED' when the last event unit for an event (Gold Medal match) has Unconfirmed status.
- Send with ResultStatus = 'UNOFFICIAL' when the last event unit for an event (Gold Medal match) has Unofficial status.
- Send with ResultStatus = 'OFFICIAL' when the last event unit for an event (Gold Medal match) has Official status.

Trigger also after any change.

### 2.2.6.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 8 | Level 9 | Level 10 |
|---|---|---|---|---|---|---|---|---|---|
| Competition (0,1) | | | | | | | | | |
| | ExtendedInfos (0,1) | | | | | | | | |

- SportDescription (0,1)
  - DisciplineName
  - EventName
  - Gender
- VenueDescription (0,1)
  - Venue
  - VenueName
  - Location
  - LocationName
- Bracket (1,N)
  - Code
  - BracketItems (1,N)
    - Code
    - BracketItem (1,N)
      - Code
      - Order
      - Date
      - Time
      - Unit
      - Result
      - CompetitorPlace (1,N)
        - Pos
        - Code
        - WLT
        - ExtCompPlaces (0,1)
          - ExtCompPlace (1,N)
            - Type
            - Code
            - Pos
            - Value
        - PreviousUnit (0,1)
          - Unit

- Competitor (0,1)
  - Code
  - Type
  - Organisation
  - Composition (0,1)
    - Athlete (1,N)
      - Code
      - Order
      - Description (1,1)
        - GivenName
        - FamilyName
        - Gender
        - Organisation
        - BirthDate
        - IFId

### 2.2.6.5 Message Values

| Element: ExtendedInfos /SportDescription (0,1)<br>Sport Description in Text | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| DisciplineName | M | S(40) | Text description, not code, from Common Codes. |
| EventName | M | S(40) | Text short description, not code, from Common Codes. |
| Gender | M | CC @DisciplineGender | Gender code for the event unit |

| Element: ExtendedInfos /VenueDescription (0,1)<br>Venue Names in text. | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Venue | M | CC @VenueCode | Venue code |
| VenueName | M | S(25) | Text short description, not code. |
| Location | O | CC @Location | Location Code |

| | | | |
|---|---|---|---|
| LocationName | O | S(30) | Text short description, not code, from Common Codes |

| **Element: Bracket (1,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | SC @Bracket | Bracket code to identify a bracket item. |

| **Element: Bracket /BracketItems (1,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | SC @BracketItems | Bracket code to identify a set of bracket items. |

| **Element: Bracket /BracketItems /BracketItem (1,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | O | Numeric<br>#0 | Heat number in the phase. |
| Order | M | Numeric<br>#0 | Sequential number inside of BracketItems to indicate the order, always start at 1. |
| Date | O | Date | Date of BracketItem (example: YYYY-MM-DD). Must include if the data is available. |
| Time | O | S(5) | Time of the BracketItem (example HH:MM) Must include if the data is available. |
| Unit | O | CC @Unit | Full RSC of the unit. |
| Result | O | m:ss.ff | Time of the winning competitor. |

| **Element: Bracket /BracketItems /BracketItem /CompetitorPlace (1,N)**<br>**- If the competitors are known, this element is used to place the competitors in the bracket.**<br>**- If they are not yet known, it contains some information (on the rule to access to this bracket...)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Pos | M | Numeric<br>0 | This attribute is a sequential number to place the different competitors in the bracket (1, 2 ...). Before the unit it is by position number, after the unit rank by place in the unit. |
| Code | O | SC @CompetitorPlace | If the competitor is not known yet send TBD. |
| WLT | O | S(1) | Send W if the competitor progresses to the next phase or L if they do not progress. |

| Element: Bracket /BracketItems /BracketItem /CompetitorPlace /ExtCompPlaces /ExtCompPlace (1,N) | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| ECP | | DIFF | N/A | Element Expected:<br>When available. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | +m:ss.ff<br>or<br>0.00 | Send the time behind or 0.00 if winner. |
| ECP | | LL | N/A | Element Expected:<br>For lucky loser. Include in all messages with results, not only when LL is final. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(2) | Send 'LL' is the competitor is the lucky loser. |

**Sample (Sprint)**

```
...
<Bracket Code="FNL">
        <BracketItems Code="SFL">
                <BracketItem Code="1" Order="1" Date="2018-02-16" Time="18:16"
Unit="CCSMSPRINT----------SFNL0001----" Result="2:45.64" >
                        <CompetitorPlace Pos="1" WLT="W" >
                                <ExtCompPlaces>
                                        <ExtCompPlace Type="ECP" Code="DIFF" Value="0.0"/>
                                </ExtCompPlaces>
                                <PreviousUnit Unit="CCSMSPRINT----------QFNL0001----" />
                                <Competitor Code="2018975" Type="A" Organisation="NED">
                                        <Composition>
                                                <Athlete Code="2018975" Order="1" >
                                                        <Description GivenName="John"
FamilyName="Brown" Gender="M" Organisation="NED" BirthDate="1994-11-15" />
                                                </Athlete>
                                        </Composition>
                                </Competitor>
                        </CompetitorPlace>
                        <CompetitorPlace Pos="2" WLT="W" >
                                <ExtCompPlaces>
                                        <ExtCompPlace Type="ECP" Code="DIFF" Value="+0.74"/>
                                </ExtCompPlaces>
                                <PreviousUnit Unit="CCSMSPRINT----------QFNL0001----" />
                                <Competitor Code="2024602" Type="A" Organisation="GER">
                                        <Composition>
                                                <Athlete Code="2024602" Order="1" >
                                                        <Description GivenName="John"
FamilyName="Smith" Gender="M" Organisation="GER" BirthDate="1994-11-14" />
...
```

| **Element: Bracket /BracketItems /BracketItem /CompetitorPlace /PreviousUnit (0,1)**<br>**Previous event unit related to the CompetitorPlace@Pos competitor of the current bracket item. It is always informed except for the bracket items whose CompetitorPlace@Pos competitor do not have preceding event units in the bracket graph unless coming from a pool.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Unit | O | CC @Unit | Full RSC code of the previous event unit for the CompetitorPlace@Pos competitor of the bracket item. |

| **Element: Bracket /BracketItems /BracketItem /CompetitorPlace /Competitor (0,1)**<br>**CompetitorPlace @Pos competitor related to the bracket item. Only include if the competitor is known.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Competitor's ID |

| | | | |
|---|---|---|---|
| Type | M | S(1) | A for Athlete or T for Team |
| Organisation | O | CC @Organisation | Competitors' organisation if known. |

| Element: Bracket /BracketItems /BracketItem /CompetitorPlace /Competitor /Composition /Athlete (1,N) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Athlete's ID, corresponding to either a team member or an individual athlete |
| Order | M | Numeric | Order attribute used to sort team members in a team (if Competitor @Type="T") or 1 if Competitor @Type="A". |

| Element: Bracket /BracketItems /BracketItem /CompetitorPlace /Competitor /Composition /Athlete /Description (1,1) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| GivenName | O | S(25) | Given name in WNPA format (mixed case) |
| FamilyName | M | S(25) | Family name in WNPA format (mixed case) |
| Gender | M | CC @PersonGender | Gender of the athlete |
| Organisation | M | CC @Organisation | Athletes' organisation |
| BirthDate | O | Date | Birth date (example: YYYY-MM-DD). Must include if the data is available |
| IFId | O | S(16) | International Federation ID |

### 2.2.6.6 Message Sort

The following order applies:
1- Bracket @Code .
2- BracketItems /BracketItem /Unit
3- BracketItem /Unit are sorted according to their scheduled start time.

## 2.2.7 Event Final Ranking

### 2.2.7.1 Description

The Event Final Ranking is a message containing the final results and ranking at the completion of one particular event, either for individual athletes or for agregated athletes.

The final ranking message is a generic message for all sports, including the full event final result for all competitors who were either ranked, got an Invalid Rank Mark (disqualified, etc.), or both.

### 2.2.7.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC (event level) | Sent for all the competition events according to the ODF Common Codes document (header values). |
| DocumentType | DT_RANKING | Event Final ranking message |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| ResultStatus | SC @ResultStatus | Result status, indicates whether the data is official or partial.<br>OFFICIAL<br>PARTIAL |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m. |

| | | |
|---|---|---|
| | | For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction.<br><br>Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

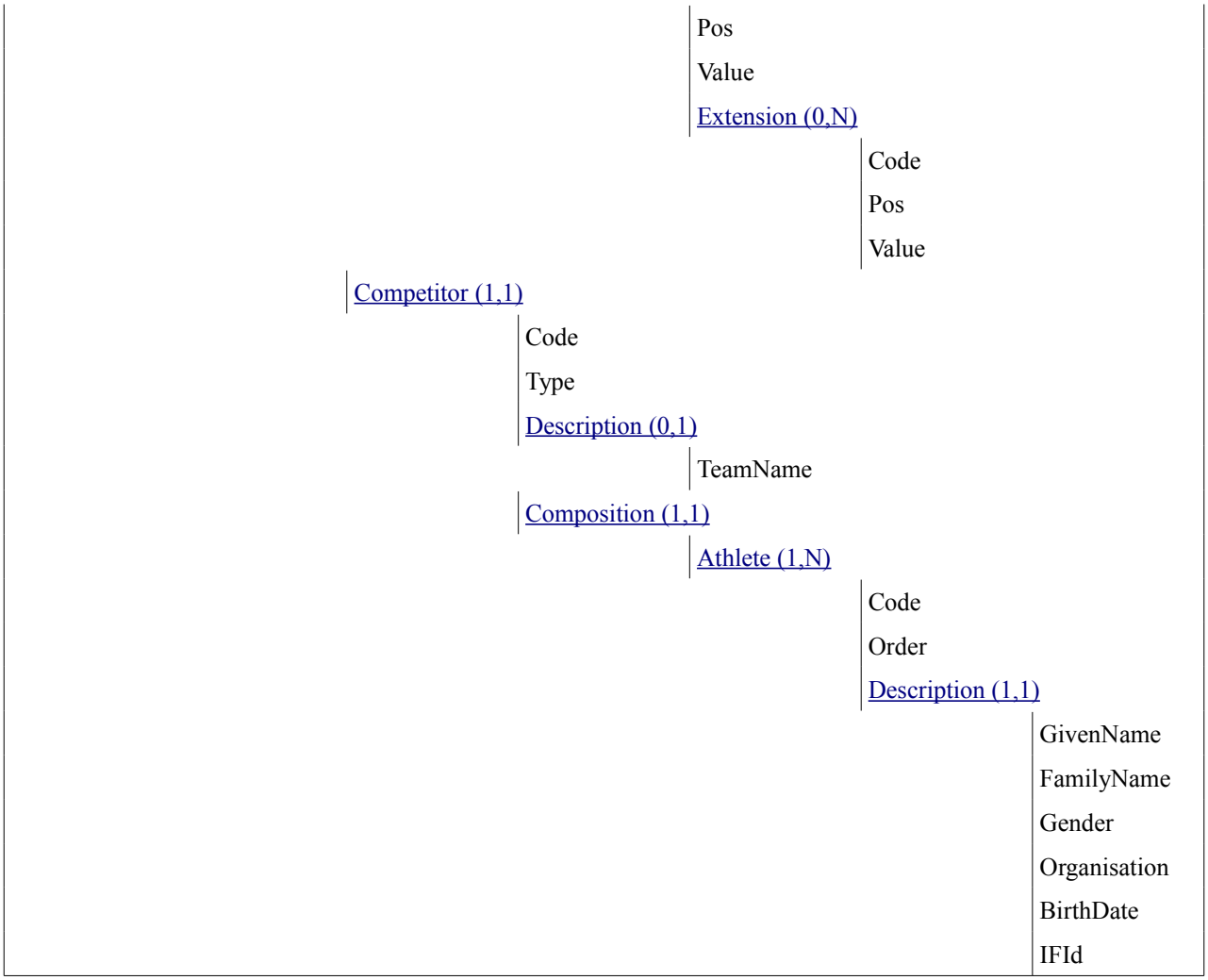
### 2.2.7.3 Trigger and Frequency

The message is expected only at the end of the Event.
Trigger also after any major change.

### 2.2.7.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 |
|---|---|---|---|---|---|---|
| Competition (0,1) | | | | | | |
| | ExtendedInfos (0,1) | | | | | |
| | | SportDescription (0,1) | | | | |
| | | | DisciplineName | | | |
| | | | EventName | | | |
| | | | Gender | | | |
| | | VenueDescription (0,1) | | | | |
| | | | Venue | | | |
| | | | VenueName | | | |
| | Result (1,N) | | | | | |
| | | Rank | | | | |
| | | RankEqual | | | | |
| | | ResultType | | | | |
| | | Result | | | | |
| | | Diff | | | | |
| | | IRM | | | | |
| | | SortOrder | | | | |
| | | ExtendedResults (0,1) | | | | |
| | | | ExtendedResult (1,N) | | | |
| | | | | Type | | |
| | | | | Code | | |




### 2.2.7.5 Message Values

| Element: ExtendedInfos /SportDescription (0,1)<br>Sport Description in text | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| DisciplineName | M | S(40) | Text description from common codes. |
| EventName | O | S(40) | Text short description (not code) from Common Codes. |
| Gender | O | CC @DisciplineGender | Gender code for the event unit. Must be included if it is a single gender |

| Element: ExtendedInfos /VenueDescription (0,1) |
|---|

| Venue Names in text | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Venue | M | CC @VenueCode | Venue code |
| VenueName | M | S(25) | Text short description (not code) from Common Codes |

| Element: Result (1,N)<br>For any event final ranking message, there should be at least one competitor being awarded a result for the event. | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Rank | O | String | Final rank of the competitor in the corresponding event. This attribute is optional because the competitor could get an empty rank in the case of an IRM for example. |
| RankEqual | O | S(1) | Send 'Y' if the rank is equaled, else do not send. |
| ResultType | O | SC @ResultType | Result type, for the corresponding event, mandatory if Result or IRM is included. |
| Result | O | m:ss.ff<br>or<br>h:mm:ss.f | Time for the competitor.<br>Do not send leading zeros. Decimals vary according to sport rules. |
| Diff | O | +m:ss.f<br>or<br>0.0 for winner | Time behind the leader when available in relay and individual events (not sprint). |
| IRM | O | SC @IRM | Send if the competitor has an IRM (invalid result mark). |
| SortOrder | M | Numeric | This attribute is a sequential number with the order of the results for the particular event, if they were to be presented. It is mostly based on the rank, but it should be used to sort out rank ties as well as results without rank. |

| Element: Result /ExtendedResults /ExtendedResult (1,N) | | | | |
|---|---|---|---|---|
| **Type** | | **Code** | **Pos** | **Description** |
| ER | | LAST_PHASE | N/A | Element Expected:<br>In individual and team sprint events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | SC @ResultPhase | Last phase reached by the competitor. |

**Sample (General)**

```
...
<Result SortOrder="2" ResultType="TIME" Rank="2" Result="23:15.86" Diff="+0.97">
        <ExtendedResults>
                <ExtendedResult Type="ER" Code="LAST_PHASE" Value="F" />
        </ExtendedResults>
        <Competitor Code="CCSM4X10KM-RUS01" Type="T" Organisation="RUS" >
                <Description TeamName="Russia" />
                <Composition>
                        <Athlete Code="2000691" Order="1" >
                                <Description GivenName="John" FamilyName="Brown" Gender="M"
Organisation="RUS" BirthDate="1994-11-15" />
                        </Athlete>
                        <Athlete Code="2000821" Order="2" >
                                <Description GivenName="John" FamilyName="Brown" Gender="M"
Organisation="RUS" BirthDate="1994-11-15" />
                        </Athlete>
                </Composition>
        </Competitor>
</Result>
...
```

| **Element: Result /Competitor (1,1)**<br>**Competitor related to one final event result.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes, NOC ID | Competitor's ID.<br>If NOC or NPC, the value will be NOC ID.<br>"NOCOMP" in the case where there is no competitor in the rank due to IRM. |
| Type | M | T,A | T for team<br>A for athlete |

| **Element: Result /Competitor /Description (0,1)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| TeamName | M | S(73) | Name of the team. Only applies for teams / groups. |

| **Element: Result /Competitor /Composition /Athlete (1,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(20) with no leading zeroes | Athlete's ID, corresponding to an individual athlete or a team member. |

| | | | |
|---|---|---|---|
| | | | Team members should be participating in the event. |
| Order | M | Numeric | Order attribute used to sort team members in a team (if Competitor @Type="T") or 1 if Competitor @Type="A". |

| **Element: Result /Competitor /Composition /Athlete /Description (1,1)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| GivenName | O | S(25) | Given name in WNPA format (mixed case) |
| FamilyName | M | S(25) | Family name in WNPA format (mixed case) |
| Gender | M | CC @PersonGender | Gender of the athlete |
| Organisation | M | CC @Organisation | Athletes' organisation |
| BirthDate | O | Date | Birth date (example: YYYY-MM-DD). Must include if the data is available |
| IFId | O | S(16) | International Federation ID |

### 2.2.7.6 Message Sort

Sort by Result @SortOrder

## 2.2.8 Configuration

### 2.2.8.1 Description

The Configuration is a message containing general configuration.

Ideally the configuration should be provided before competition. However it may be possible that the configuration for one particular event, phase or event unit is not known in advance. In that case send the unknown attributes blank (Value='').

### 2.2.8.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC | Send one message per unit with the unit level DocumentCode for single unit events.<br>Send one message per phase with the phase level DocumentCode for multiple unit events. |
| DocumentType | DT_CONFIG | Configuration message |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction. |

| | | |
|---|---|---|
| | | Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

### 2.2.8.3 Trigger and Frequency

The message is sent prior to any ODF Sports message, if requested by one particular discipline (ODF Sport Data Dictionary).

Trigger also any major change, but considering that, if possible, the configuration for one particular event, phase or event unit must be provided before the start list.

If a DT_CONFIG message is sent after a DT_RESULT in a related unit then the next version of DT_RESULT must be sent immediately.

### 2.2.8.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
|---|---|---|---|---|---|
| Competition (0,1) | | | | | |
| | Configs (1,1) | | | | |
| | | Config (1,N) | | | |
| | | | ExtendedConfig (1,N) | | |
| | | | | Type | |
| | | | | Code | |
| | | | | Pos | |
| | | | | Value | |
| | | | | ExtendedConfigItem (0,N) | |
| | | | | | Code |
| | | | | | Pos |
| | | | | | Value |

### 2.2.8.5 Message Values

| Element: Configs /Config /ExtendedConfig (1,N) | | | |
|---|---|---|---|
| **Type** | **Code** | **Pos** | **Description** |
| | CODEX | N/A | Element Expected: |

| | | | | |
|---|---|---|---|---|
| FIS | | | | When available. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | String | FIS Codex. |
| COURSE | | NAME | Numeric<br>0 | Pos Description:<br>If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second.<br>Element Expected:<br>When available. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | String | Name of the course in ENG. |
| COURSE | | ALTITUDE | N/A | Element Expected:<br>Always. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>###0 | Send the altitude of the stadium (start/finish) in metres. |
| COURSE | | HEIGHT_DIFF | Numeric<br>0 | Pos Description:<br>If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second.<br>Element Expected:<br>Always. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>##0 | Send the total difference in height from the low point to the highest point in metres. |
| COURSE | | LENGTH | Numeric<br>0 | Pos Description:<br>Send proposed code.<br>Element Expected:<br>Always. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>####0 | Send the total length of the course in metres. |

| | | | | |
|---|---|---|---|---|
| COURSE | | LAP | Numeric<br>0 | Pos Description:<br>If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second.<br>Element Expected:<br>When available in cross country. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>####0 | Send the lap length in metres. |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: When available in cross country.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | NUM | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Number of laps. | |
| COURSE | | CLIMB | Numeric<br>0 | Pos Description:<br>If there is more than one course in the race (skiathlon & relay) send 1 for the first course and 2 for the second.<br>Element Expected:<br>Always. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>###0 | Course Total Climb in metres. |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: Always.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | MAX | | |
| | Pos | N/A | | |
| | Value | Numeric<br>###0 | Course Maximum Climb in metres. | |
| EC | | SHOOT | S(2) | Pos Description:<br>Send the shooting number 1...n for each shooting effort on the course. |

| | | | | |
|---|---|---|---|---|
| | | | | Element Expected:<br>Always in Biathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(1) | Type of shoot, P = Prone S = Standing. |
| EC | | INTERMEDIATE | S(2) | Pos Description:<br>Send the value that identifies the intermediate point, 1 to n for intermediates along the course and F for the finish point.<br>Element Expected:<br>Always for all intermediates including those with a leg in relays.<br>Not required in Sprint events (unless it has intermediate points). |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0.0# | Distance from the start in km for the intermediate. |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: Team events only.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | LEG | | |
| | Pos | Numeric<br>0 | Send the leg number of the team. | |
| | Value | S(2) | Send the INTERMEDIATE within the leg 1...F.<br>If Pos = 2 and Value=F then it is the start point for leg 3 and the end point for leg 2. | |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: If applicable in biathlon.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | LOOP | | |
| | Pos | N/A | | |
| | Value | S(2) | Send 1...n for the loop number if this intermediate corresponds to the end of a loop. | |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: Skiathlon only.** | | | |
| | **Attribute** | **Value** | **Description** | |

| | | | | |
|---|---|---|---|---|
| | Code | PIT_STOP | | |
| | Pos | N/A | | |
| | Value | S(1) | Send 'Y' for the intermediate point at the exit Pit Stop, else do not send. | |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem<br>Expected: Always in biathlon.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SHOOT_COMP | | |
| | Pos | N/A | | |
| | Value | Numeric<br>0 | Send 1...n for the number of shootings completed at this intermediate. | |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem<br>Expected: Only in biathlon and only if this intermediate is the end of a shooting session.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SHOOT_END | | |
| | Pos | N/A | | |
| | Value | Numeric<br>0 | Shooting session number, only if this intermediate point immediately after a shooting. Send 1...n for the shooting point. | |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem<br>Expected: Only in biathlon and only if this intermediate is the entrance to a shooting session.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SHOOT_START | | |
| | Pos | N/A | | |
| | Value | Numeric<br>0 | Shooting session number, only if this intermediate point immediately before a shooting. Send 1...n for the shooting point. | |
| EC | | INTERMEDIATES_NUM | N/A | Element Expected:<br>Always except in sprint events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0 | Send the total number of intermediate points where the time is recorded including F. |
| EC | | PRETIMING | S(2) | Pos Description:<br>Send the value that identifies the |

| | | | | |
|---|---|---|---|---|
| | | | | pretiming point, 1 to n.<br>Element Expected:<br>Only for interval start events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0.0# | Distance from the start in km for the pre-timing point. |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: Only for interval start events.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | NEXT_INTERMEDIATE | | |
| | Pos | N/A | | |
| | Value | Numeric<br>#0 | Send the total number of intermediate points where the time is recorded including F. | |
| EC | | PRETIMING_NUM | N/A | Element Expected:<br>Only for interval start events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0 | Send the total number of pre-timing points. |
| EC | | LOOP | S(2) | Pos Description:<br>Send the loop number 1...n.<br>Element Expected:<br>Always in biathlon. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0.0 | Length of the loop in km. |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: Always in biathlon.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | COLOUR | | |
| | Pos | N/A | | |

| | | | | |
|---|---|---|---|---|
| | Value | S(15) | Colour label of the loop. | |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: If applicable in biathlon.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | SHOOT | | |
| | Pos | N/A | | |
| | Value | Numeric<br>0 | Send the shoot number on this loop. | |
| EC | | LEG | S(2) | Pos Description:<br>Send the value that identifies the leg in the team event, 1 to n for each leg.Element Expected:<br>Team sprint and relay events. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0.0# | Distance from the start in km to the end of the leg. |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: Team sprint and relay events.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | CUMULATIVE | | |
| | Pos | S(2) | Send the value that identifies the intermediate point, 1,2... to F for intermediates in the leg, including the end. | |
| | Value | Numeric<br>#0.0# | Distance from the start of the race in km for the intermediate. | |
| | **Sub Element: Configs /Config /ExtendedConfig /ExtendedConfigItem**<br>**Expected: Team sprint and relay events.** | | | |
| | **Attribute** | **Value** | **Description** | |
| | Code | INTERMEDIATE | | |
| | Pos | S(2) | Send the value that identifies the intermediate point, 1,2... to F for intermediates in the leg, including the end. | |
| | Value | Numeric<br>#0.0# | Distance from the start of the leg in km for the intermediate. | |
| EC | | LEGS_NUM | N/A | Element Expected:<br>Team sprint and relay events. |

| | | | | |
|---|---|---|---|---|
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0 | Send the total number of intermediate points where the time is recorded including F. |
| QUALIFICATION<br>(by phase) | | FROM_RANK | N/A | Element Expected:<br>When applicable. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0 | Send the qualifying rank to indicate first rank to qualify. |
| QUALIFICATION<br>(by phase) | | TO_RANK | N/A | Element Expected:<br>When applicable. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0 | Send the qualifying rank to indicate last rank to qualify. |
| QUALIFICATION<br>(by phase) | | QUAL_BT | N/A | Element Expected:<br>When some competitors qualify by time. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | Numeric<br>#0 | Number of competitors to advance (based in time qualification)<br>For example: In the individual sprint Value =2 (for the 2 lucky losers). |
| QUALIFICATION<br>(by phase) | | QUAL_RULE | N/A | Element Expected:<br>When applicable pre-finals. |
| | **Attribute** | **M/O** | **Value** | **Description** |
| | Value | O | S(100) | Text description of the qualification rule for next phase. |

**Sample (General)**

```
...
<Configs>
        <Config Unit="CCSWSKIATHLN----------FNL-0001----">
                <ExtendedConfig Type="COURSE" Code="NAME" Pos="1" Value="3.75 km C red" />
                <ExtendedConfig Type="COURSE" Code="HEIGHT_DIFF" Pos="1" Value="35" />
                <ExtendedConfig Type="COURSE" Code="LAP" Pos="1" Value="3883" >
                        <ExtendedConfigItem Code="NUM" Value="2" />
                </ExtendedConfig>
                <ExtendedConfig Type="COURSE" Code="CLIMB" Pos="1" Value="280" >
                        <ExtendedConfigItem Type="COURSE" Code="MAX" Value="42" />
                </ExtendedConfig>
                <ExtendedConfig Type="COURSE" Code="NAME" Pos="2" Value="3.75 km C blue" />
                <ExtendedConfig Type="COURSE" Code="HEIGHT_DIFF" Pos="2" Value="87" />
                <ExtendedConfig Type="COURSE" Code="LAP" Pos="2" Value="3985" >
                        <ExtendedConfigItem Code="NUM" Value="2" />
                </ExtendedConfig>
                <ExtendedConfig Type="COURSE" Code="CLIMB" Pos="2" Value="284" >
                        <ExtendedConfigItem Type="COURSE" Code="MAX" Value="56" />
                </ExtendedConfig>
                <ExtendedConfig Type="EC" Code="INTERMEDIATES_NUM" Value="9" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="1" Value="1.7" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="2" Value="3.75" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="3" Value="5.4" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="4" Value="7.4" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="5" Value="7.5" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="6" Value="9.5" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="7" Value="11.25" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="8" Value="13.3" />
                <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="F" Value="15.0" />
        </Config>
...
```

**Sample (Team events)**

```
...
<ExtendedConfig Type="EC" Code="LEGS_NUM" Value="4" />
<ExtendedConfig Type="EC" Code="LEG" Pos="1" Value="5.0" />
<ExtendedConfigItem Code="INTERMEDIATE" Pos="1" Value="1.7" />
<ExtendedConfigItem Code="INTERMEDIATE" Pos="2" Value="2.5" />
<ExtendedConfigItem Code="INTERMEDIATE" Pos="3" Value="4.2" />
<ExtendedConfigItem Code="INTERMEDIATE" Pos="F" Value="5.0" />
<ExtendedConfigItem Code="CUMULATIVE" Pos="1" Value="1.7" />
<ExtendedConfigItem Code="CUMULATIVE" Pos="2" Value="2.5" />
<ExtendedConfigItem Code="CUMULATIVE" Pos="3" Value="4.2" />
<ExtendedConfigItem Code="CUMULATIVE" Pos="F" Value="5.0" />
<ExtendedConfig Type="EC" Code="LEG" Pos="2" Value="10.0" >
        <ExtendedConfigItem Code="INTERMEDIATE" Pos="1" Value="1.7" />
        <ExtendedConfigItem Code="INTERMEDIATE" Pos="2" Value="2.5" />
        <ExtendedConfigItem Code="INTERMEDIATE" Pos="3" Value="4.2" />
        <ExtendedConfigItem Code="INTERMEDIATE" Pos="F" Value="5.0" />
        <ExtendedConfigItem Code="CUMULATIVE" Pos="1" Value="6.7" />
        <ExtendedConfigItem Code="CUMULATIVE" Pos="2" Value="7.5" />
        <ExtendedConfigItem Code="CUMULATIVE" Pos="3" Value="9.2" />
        <ExtendedConfigItem Code="CUMULATIVE" Pos="F" Value="10.0" />
</ExtendedConfig>
...
```

**Sample (Biathlon)**

```
...
<Config Unit="BTHM10KMSP----------FNL-0001----">
        <ExtendedConfig Type="COURSE" Code="NAME" Value="blue 3388m + blue 3388m + blue 3388m" />
        <ExtendedConfig Type="COURSE" Code="ALTITUDE" Value="127" />
        <ExtendedConfig Type="COURSE" Code="HEIGHT_DIFF" Value="57" />
        <ExtendedConfig Type="COURSE" Code="LENGTH" Value="10164" />
        <ExtendedConfig Type="COURSE" Code="CLIMB" Value="284" >
                <ExtendedConfigItem Code="MAX" Value="56" />
        </ExtendedConfig>
        <ExtendedConfig Type="EC" Code="SHOOTING" Pos="1" Value="P" />
        <ExtendedConfig Type="EC" Code="SHOOTING" Pos="2" Value="S" />
        <ExtendedConfig Type="EC" Code="INTERMEDIATES_NUM" Value="8" />
        <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="1" Value="1.8" >
                <ExtendedConfigItem Code="SHOOT_COMP" Value="0" />
                <ExtendedConfigItem Code="LOOP" Value="1" />
        </ExtendedConfig>
        <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="2" Value="3.3" >
                <ExtendedConfigItem Code="SHOOT_START" Value="1" />
                <ExtendedConfigItem Code="SHOOT_COMP" Value="0" />
                <ExtendedConfigItem Code="LOOP" Value="1" />
        </ExtendedConfig>
        <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="3" Value="3.4" >
                <ExtendedConfigItem Code="SHOOT_END" Value="1" />
                <ExtendedConfigItem Code="SHOOT_COMP" Value="1" />
                <ExtendedConfigItem Code="LOOP" Value="1" />
        </ExtendedConfig>
    <ExtendedConfig Type="EC" Code="INTERMEDIATE" Pos="F" Value="10.0" >
                <ExtendedConfigItem Code="SHOOT_COMP" Value="2" />
                <ExtendedConfigItem Code="LOOP" Value="3" />
        </ExtendedConfig>
        <ExtendedConfig Type="EC" Code="PRETIMING" Pos="1" Value="1.2">
                <ExtendedConfigItem Code="NEXT_INTERMEDIATE" Value="1" />
        </ExtendedConfig>
        <ExtendedConfig Type="EC" Code="PRETIMING" Pos="2" Value="2.4">
                <ExtendedConfigItem Code="NEXT_INTERMEDIATE" Value="2" />
        </ExtendedConfig>
        <ExtendedConfig Type="EC" Code="PRETIMING" Pos="3" Value="4.5">
    <ExtendedConfig Type="EC" Code="PRETIMING" Pos="6" Value="9.0">
                        <ExtendedConfigItem Code="NEXT_INTERMEDIATE" Value="F" />
                </ExtendedConfig>
                <ExtendedConfig Type="EC" Code="LOOP" Pos="1" Value="3.3" >
                        <ExtendedConfigItem Code="COLOUR" Value="blue" />
                </ExtendedConfig>
                <ExtendedConfig Type="EC" Code="LOOP" Pos="2" Value="3.3" >
                        <ExtendedConfigItem Code="COLOUR" Value="blue" />
                </ExtendedConfig>
                <ExtendedConfig Type="EC" Code="LOOP" Pos="3" Value="3.3" >
                        <ExtendedConfigItem Code="COLOUR" Value="blue" />
                </ExtendedConfig>
        </Config>
```

#### 2.2.8.6 Message Sort

There is no general message sorting rule.

## 2.2.9 Event Unit Weather conditions

### 2.2.9.1 Description

The Event Unit Weather Conditions is a message containing the weather conditions in the Event Unit.

### 2.2.9.2 Header Values

The following table describes the message header attributes.

| Attribute | Value | Comment |
|---|---|---|
| CompetitionCode | CC @Competition | Unique ID for competition |
| DocumentCode | Full RSC | Sent according to the ODF Common Codes document (header values). |
| DocumentType | DT_WEATHER | Weather conditions in the match message |
| Version | 1..V | Version number associated to the message's content. Ascendant number |
| FeedFlag | "P"-Production<br>"T"-Test | Test message or production message. |
| Date | Date | Date when the message is generated, expressed in the local time zone where the message was produced. |
| Time | Time | Time up to milliseconds when the message is generated, expressed in the local time zone where the message was produced. |
| LogicalDate | Date | Logical Date of events. This is the same as the physical day except when the unit or message transmission extends after midnight.<br><br>If an event unit continues after midnight (24:00), all messages produced will be considered as happening at the logical date on which the event unit began (e.g. for a session which began at 21:00 on Aug 2 and ended at 1:20 on Aug 3, the message will all be dated Aug 2).<br><br>The end of the logical day is defined by default at 03:00 a.m.<br><br>For messages corrections, like invalidating medals or Records, it will be the LogicalDate of the day of the correction.<br><br>Logical Date is expressed in the local time zone where the message was produced. |
| Source | SC @Source | Code indicating the system which generated the message. |

### 2.2.9.3 Trigger and Frequency

The message is sent if weather data conditions change during an event unit.

### 2.2.9.4 Message Structure

The following table defines the structure of the message.

| Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|
| Competition (0,1) | | | | |
| | Weather (1,1) | | | |
| | | Conditions (1,N) | | |
| | | | Code | |
| | | | Humidity | |
| | | | Wind_Direction | |
| | | | Prec_Type | |
| | | | Condition (0,3) | |
| | | | | Code |
| | | | | Value |
| | | | Temperature (0,N) | |
| | | | | Code |
| | | | | Unit |
| | | | | Value |
| | | | Wind (0,N) | |
| | | | | Code |
| | | | | Unit |
| | | | | Value |

### 2.2.9.5 Message Values

| Element: Weather /Conditions (1,N) | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | SC @WeatherPoint | Weather points, send GEN (Stadium), HIGH (middle of the course). |
| Humidity | O | Numeric<br>##0 | Humidity in % |
| Wind_Direction | O | CC @WindDirection | Wind direction |

| | | | |
|---|---|---|---|
| Prec_Type | O | SC @PrecType | Precipitation type |

| **Element: Weather /Conditions /Condition (0,3)**<br>**Send three times in the case of Winter conditions.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(4) | Weather condition type, send SKY and SNOW. |
| Value | M | CC @WeatherCondition<br>or<br>CC @SnowConditions | Use CC @WeatherConditions for SKY<br>Use CC @SnowConditions for SNOW |

| **Element: Weather /Conditions /Temperature (0,N)**<br>**Send with three different @Code in the case of Winter conditions.** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(4) | Temperature type, send AIR, SNOW |
| Unit | M | SC @TemperatureUnit | Unit for temperature, send both. |
| Value | M | Numeric<br>##0.0 | Temperature in centigrade degrees of the @Code. Negative if applicable. Do not send '+' if positive. |

| **Element: Weather /Conditions /Wind (0,N)** | | | |
|---|---|---|---|
| **Attribute** | **M/O** | **Value** | **Description** |
| Code | M | S(5) | Wind Speed, send SPEED |
| Unit | M | SC @WindUnit | Unit for Wind. Use MS and KMH. |
| Value | M | Numeric<br>##0.0 | Wind speed value in @Unit without plus or minus symbol. |

**Sample (Weather)**

```
...
<Weather>
        <Conditions Code="HIGH" Humidity="49" Wind_Direction="SE">
                <Condition Code="SKY" Value="pc" />
                <Condition Code="SNOW" Value="hrd" />
                <Temperature Code="AIR" Unit="C" Value="2.8" />
                <Temperature Code="AIR" Unit="F" Value="37.0" />
                <Temperature Code="SNOW" Unit="C" Value="-2.4" />
                <Temperature Code="SNOW" Unit="F" Value="27.7" />
                <Wind Code="SPEED" Unit="KMH" Value="7.2" />
                <Wind Code="SPEED" Unit="MS" Value="2.0" />
        </Conditions>
</Weather>
..
```

#### 2.2.9.6 Message Sort

There is no special sort order requirement for this message. Usually, Conditions@code is the attribute used to sort the conditions.

# 3 Message Timeline

## 3.1 Preparation Phase

| Trigger | Message | Status | D | E | P | S | U |
|---|---|---|---|---|---|---|---|
| OVR gets Initial data | DT_CODES (Ab WOG2018) | | X | | | | |
| | DT_SCHEDULE | | X | | | | o |
| | DT_PARTIC | | X | | | | |
| | DT_PARTIC_TEAM | | X | | | | |
| OVR sends | DT_CONFIG | | X | | o | | o |
| | DT_BRACKETS | | | X | | | o |
| | DT_PDF C08 Schedule | | X | o | | | |
| After changes of athlete data | DT_PARTIC_UPDATE | | X | | | | |
| After changes of team data | DT_PARTIC_TEAM_UPDATE | | X | | | | |
| When athlete/team data is confirmed | DT_PDF C32x Entry List | | X | | | | |

## 3.2 Before and During Individual, Pursuit

| Trigger | Message | Status | D | E | P | S | U |
|---|---|---|---|---|---|---|---|
| As soon as the start list is known (-120') | DT_RESULT for each unit | START_LIST | | | | | X |
| | DT_PDF C51x Start List | | | X | | | |
| **Individual Start** | | | | | | | |
| At scheduled start (-0.5) | DT_SCHEDULE_UPDATE | *GETTING_READY* | X | | | o | o |
| **Mass Start** | | | | | | | |
| At scheduled start (-1) | DT_SCHEDULE_UPDATE | *GETTING_READY* | X | | | o | o |
| **All** | | | | | | | |
| Event unit starts (First Athlete starts) | DT_SCHEDULE_UPDATE | *RUNNING* | X | | | o | o |
| | DT_RESULT | LIVE | | | | | X |
| | DT_CURRENT | | | | | | X |
| Time received * | DT_CURRENT | | | | | | X |
| … * | DT_RESULT | LIVE | | | | | X |
| * repeated for each athlete | | | | | | | |

## 3.3 After competition

| Trigger | Message | Status | D | E | P | S | U |
|---|---|---|---|---|---|---|---|
| **Last Result Mass-Start** | DT_SCHEDULE_UPDATE | *FINISHED* | X | | | | o |
| | DT_RESULT | UNCONFIRMED | | | | | X |
| Stats are entered | DT_RESULT | UNOFFICIAL | | | | | X |
| **Last Result Individual** | DT_SCHEDULE_UPDATE | *FINISHED* | X | | | | o |
| | DT_RESULT | UNOFFICIAL | | | | | X |
| Race confirmed | DT_RESULT | OFFICIAL | | | | | X |
| | DT_PDF C73 Results | | | | | | X |

## 3.4 At the end of the event

| Trigger | Message | Status | D | E | P | S | U |
|---|---|---|---|---|---|---|---|
| After last event unit is official | DT_MEDALLIST | OFFICIAL | | X | | | |
| | DT_MEDALLIST_DISCIPLINE | | X | | | | |
| | DT_RANKING | OFFICIAL | | X | | | |
| | DT_PDF C92x Medallist | | | X | | | |

**Legend:**

**D** Discipline **E** Event **P** Phase **S** Session **U** Unit **X** Sent on that level **o** Includes info from that level

# 4 Document Control

| Version history | | |
|---|---|---|
| **Version** | **Date** | **Comments** |
| v1.0 | 13 May 2015 | First Version |
| v1.1 | 15 Jul 2015 | Biathlon added |
| v1.2 | 09 Sep 2015 | Updated with Omega Feedback |
| v1.3 | 11 Sept 2015 | Minor update |
| v1.4 | 01 Oct 2015 | Minor update |
| v1.5 | 07 Oct 2015 | Minor update |
| v1.6 | 04 Jan 2016 | Status Change |
| v1.7 | 24 Mar 2016 | Updated |
| v1.8 | 19 May 2016 | Updated |
| v1.9 | 22 Sep 2016 | Updated |
| v2.0 | 23 Feb 2017 | First version as a full document |
| v2.1 | 20 Apr 2017 | Updated and CR14894/CR14929 (CCS) applied |
| v2.2 | 25 May 2017 | Updated and CR15082 (BTH) applied |
| v2.3 | 20 Jul 2017 | CR15286 (CCS) applied |
| v2.4 | 02 Oct 2017 | Updated |
| v2.5 | 30 Oct 2017 | CR15823 (CCS) applied |

**File Reference:** ODF/INT415 R-WOG-2018-BTH CCS-v2.5 APP

| Change Log | | |
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| **Version** | **Status** | **Changes on version** |
| v1.0 | Initial | First Version |
| v1.1 | SFR | Biathlon added |
| v1.2 | SFR | Updated with Omega Feedback |
| v1.3 | SFR | Change extension in DT_RESULT from PURSUIT_RAW to RAW to be consistent with Nordic Combined |
| v1.4 | SFR | Add LIVE to DT_BRACKETS |
| v1.5 | SFR | Add WAVE in EventUnitEntry |
| v1.6 | SFA | Status Change |
| v1.7 | SFA | CR8928, DT_RANKING add 'Diff' at Result and remove extension |

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| | | CR8934, DT_BRACKETS adding IRM attribute and START_LIST<br>CR9360, DT_CURRENT Play by Play message improvements |
| v1.8 | SFA | Add STARTED in ExtendedInfo in DT_CURRENT message |
| v1.9 | APP | DT_CONFIG: Corrected @Pos for CLIMB. Remove LETTER<br>DT_RESULT: Added flag to indicate last intermediate passed. |
| v2.0 | APP | First version as a full document.<br>DT_RESULT, DT_RANKING: CR014797 - Add plus sign in Diff attributes.<br>DT_IMAGE: CR14627 - Add Result Element to include competitors in the message.<br>DT_RESULT: Add IRM attribute in several extensions. |
| v2.1 | APP | (CR14894 - CCS:Changes after TEV and CR14929 - CCS:ORIS after TEV):<br>-DT_RESULT - Triggering: Trigger added for CCS:Sprint Events: Quarterfinals: Heat selection process. UNCONFIRMED/UNOFFICIAL/OFFICIAL triggers detailed. PROTESTED trigger added.<br>LL_TIME_TO_BEAT@ExtendedInfo.<br>YC@Result/Competitor/Composition/Athlete/EventUnitEntry added.<br>PREVIOUS_YC@Result/Competitor/Composition/Athlete/EventUnitEntry added.<br>TIME_PENALTY@ Result/ExtendedResult added.<br><br>-TIMELINE: 3.3 - After competition: DT_SCHEDULE_UPDATE (Finished) and DT_RESULT (Unconfirmed) swapped rows. |
| v2.2 | APP | -(CR15082 - BTH:improve performance):<br>DT_RESULT: Added shots information and corrected type in ExtendedInfos.<br>DT_CURRENT: Removed the individual athlete message.<br><br>-DT_RANKING: Extension NEXT_PHASE deleted (not needed). |
| v2.3 | APP | (CR15286 - CCS:Changes after Homologation Test):<br>-(Ref HT issue #149618):<br>DT_RESULT:<br>Added Result Extension for Jury Decisions in Result/ExtendedResults/ExtendedResult (Type=ER, Code=SANCTION)<br>and in Result/Competitor/Composition/Athlete/ExtendedResults /ExtendedResult (Type=ER,Code=SANCTION)<br><br>-(Ref HT issue #149687 and #149728):<br>DT_RESULT:<br>For CCS: Changed ResultType for LAP and RAL athletes to TIME and send LAP and RAL at Result attribute.<br>Removed LAP and RAL from CCS@IRM sport code.<br>For BTH: For Relay events only, LAP is considered as TIME.<br>For all other events LAP is considered an IRM. Send Result=LAP when ResultType=TIME in Relays.<br>In other events send LAP as IRM when ResultType=IRM<br><br>-(Ref HT issue #149693):<br>DT_PARTIC: Height and Weight. '-' should be sent when data is not available. ODF definition is clear. No change |

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| | | -(Ref HT issue #149707):<br>DT_RANKING: Triggers updated to send DT_RANKING only at the end of Final.<br><br>-(Ref HT issue #149709):<br>DT_RESULT:<br>In CCS, Individual Sprint Events only: Changed Time Format to thousandths when competition is LIVE as per FIS rules change.<br><br>-(Ref HT issue #149713):<br>DT_RESULT: Removed ExtendedInfo (Type=UI, Code=LL_TIME_TO_BEAT)<br>DT_CURRENT:<br>Added ExtendedInfo (Type=UI, Code=LL_TIME_TO_BEAT)<br>Added Result, Result/Competitor, Result/Competitor/Composition/Athlete elements<br>Added Result/ExtendedResults/ExtendedResult (Type=ER, Code=LL, Pos=[1,2]) for current lucky losers<br>ExtendedInfo (Type=UI, Code=LL_TIME_TO_BEAT): Time format updated to hundredths of second.<br>Triggering: Updated triggers to generate lucky losers information<br><br>-(Ref HT issue #149725):<br>DT_CONFIG: ExtendedConfig(Type=EC, Code=INTERMEDIATE) /ExtendedConfigItem (Code=PIT_STOP) added to indicate the intermediate point after pit stop. |
| v2.4 | APP | -(CCS- Ref HT issue #149713):<br>DT_CURRENT:<br>Header Values for Document code, added: 'For CCS Sprint Events DocumentCode is at phase level'.<br>@Result Value updated to thousands of seconds(mm:ss.fff).<br>@ExtendedInfos Type=UI,Code=LL_TIME_TO_BEAT Value updated to thousands of seconds(mm:ss.fff).<br>-(CCS - def.#154481):<br>DT_CURRENT: Result/ExtendedResults/ExtendedResult Type=ER, Code=LL: Added Pos=[1,2]. |
| v2.5 | APP | (CR15823 - CCS:Changes after UAT):<br>-(Ref issue 149709, CR15413, FIS autumn meeting decision): Level of precision on time measurement at CCS:Sprint Events has changed to tenths of seconds instead of thousandths.<br>DT:RESULT:<br>Result@Result: Value (Time) format and description text updated.<br><br>-(Ref issue: 153613, 152933): Send the first athlete as NEXT when competition starts.<br>DT_RESULT - Triggering:<br>Trigger added: DT_RESULT (LIVE) is send for individual events with individual start time shortly before the first athlete starts.<br>DT_CURRENT - Triggering:<br>Trigger added: DT_CURRENT is send some seconds before the first athlete starts in individual starts, so we can cover the start of the first athlete in time. The first athlete will be send as NEXT athlete in the first message. |

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| | | -(Ref issue: 155351): CCS:Sprint: Resend Heat results at the end of the Phase with Lucky Loser indicator.<br>DT_RESULT: Triggering:<br>Trigger added: After the last heat of a phase (Quarterfinal, Semi-final) of sprint and team sprint the UNOFFICIAL results of each heat of the phase is resend. Only at that time the QualificationMark attributes for Lucky Losers are included.<br><br>-(Clarify weather points): Remove LOW WeatherPoint from definition as it is not provided by weather provided and clarify that HIGH WeatherPoint is at the middle of the course.<br>DT_WEATHER: Code@Weather /Conditions description updated to reflect the actual situation. |