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Olympic Data Feed

ODF Alpine Skiing Data Dictionary

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DOCUMENT CONTROL

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Version	Status	Changes on version
1.0	SFR	<ul style="list-style-type: none">• First version
1.1	SFA	<ul style="list-style-type: none">• SFA Version
1.2	APP	<ul style="list-style-type: none">• APP Version
1.3	APP	<ul style="list-style-type: none">• References to DTX_SCHEDULE, DTX_COMMUNICATION, DTX_PARTIC_ATHLETES and DTX_PARTIC_TEAMS removed



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1. Introduction

1.1. This document

This document includes the ODF Alpine Skiing Data Dictionary. This Data Dictionary refines the messages described in the ODF Light Messages Interface specifically for Alpine Skiing, as well as defines the codes used in these messages.

1.2. Objective

The objective of this document is to provide a complete and formal definition of the ODF Alpine Skiing Data Dictionary, with the intention that the information message producer and the message consumer can successfully interchange the information as the Alpine Skiing 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

- **IF** – International Federation
- **IOC** – International Olympic Committee
- **NOC** – National Olympic Committee
- **ODF** – Olympic Data Feed
- **ODF-RT** – Olympic Data Feed Real Time
- **RSC** – Results System Codes
- **AS** – Alpine Skiing
- **WNPA** – World News Press Agencies

1.5. Related Documents

Document Reference	Document Title	Document Description
ODF/COD101	ODF Common Codes Document	This document describes the ODF codes used across the rest of the ODF documents
ODF/INT100	ODF Light Messages Interface Document	This document describes the ODF Light messages





2. Overall Perspective

2.1. Objective

The objective of this document is to focus on the formal definition of the ODF Alpine Skiing Data Dictionary.

2.2. End to End data flow

The general rules as described in the documents referenced in the section 1.5 will have to be considered for a complete and formal definition. It is especially important the ODF Light Messages Interface Document since this ODF Alpine Skiing Data Dictionary is a particularization of those documents.

In the following sections, for each ODF sport message it will be explained in further detail those elements, attributes, codes, IDS header and ODF header, the trigger and frequency for each message generation, as well as the sort of the message that are particular in the case of Alpine Skiing.

Any ODF Alpine Skiing message should follow all the previous definitions in order to be considered as an ODF compliant message.



3. Codes

Several codes are used in the definition of the messages in this document. Any code will be referenced the following way:

CC @CodeEntity

CodeEntity is the name of the entity that identifies a particular set of codes.

The following table describes the codes entities used in document sorted by name, indicating whether the set of values can be found in the ODF Common Codes Document, or listed in the table itself, otherwise.

Code Entity	Code Entity Set of Values	
CC @ForerunnerBib (the codes order is according to how they should be sorted)	Code	Description
	A	A
	B	B
	C	C
	D	D
	E	E
CC @Function	Defined in ODF Common Codes Document	
	See entity Function <ul style="list-style-type: none"> The entity's attribute to be used is Code 	
CC @IRM (The codes order provided is according to the sport rules. In case of several DQS, DNF or DNS, sort by bib number).	Code	Description
	DNS	Did not start
	DNF	Did not finish
	DSQ	Disqualified
CC @ResultType	Code	Description
	RT_TIME	Time
	RT_POINTS	Points for Parallel Team event
	RT_INVALID_RESULT	Invalid Result Mark
CC @BracketItemCode	Code	Description
	QUARTERFINAL	Quarterfinal
	SEMIFINAL	Semifinal
	SMALL_FINAL	Small final
	BIG_FINAL	Big final
CC @BracketItemsCode	Code	Description
	QFL	Quarterfinals
	SFL	Semifinals
	FNL	Finals
CC @SnowConditions	Defined in ODF Common Codes Document	
	See entity Snow Conditions <ul style="list-style-type: none"> The entity's attribute to be used is Code 	
CC @TemperatureUnit	Code	Description



	C	Celsiut
	F	Fahrenheit
CC @WeatherConditions	Defined in ODF Common Codes Document See entity Weather Conditions <ul style="list-style-type: none">• The entity's attribute to be used is Code	



4. Applicable Messages

The following table is a full list of all ODF messages and describes the list of messages used in Alpine Skiing.

- The column “Message type” indicates the DocumentType that identifies a message
- The column “Message name” is the message name identified by the message
- The column “Message used in this sport” indicates whether a message is used in particular for this sport or not. If it is not ticked (X), then the message should not be used for this sport.
- The column “Message extended in this document” indicates whether a particular message has extended definition in regards to those that are general for all sports. Any message ticked (X) in this column should also be ticked in the “Message used in this sport column”. If one message has extended definition, it should be considered both, the extensions as well as the general rules for one message that is used in the case of the sport. However, if one particular message is not extended, then it should follow the general definition rules.

Message Type	Message name	Message used in this sport	Message extended in this document
DTX_START_LIST	Start List	X	X
DTX_RESULT	Event Unit Results	X	X
DTX_POOL_STANDING	Pool Standings of group in a team competition		
DTX_BRACKETS	Brackets	X	X
DTX_RANKING	Event Final ranking	X	X
DTX_MEDALLISTS	Medallists of one event	X	X



5. Alpine Skiing Data Extension

5.1. General Issues

The following sections extend and complete the information to be sent in each of the messages for this particular discipline, if some particularization is needed. If there are special considerations for any of the message types that have to be sent for this discipline, then they should be considered in the following sections. If nothing is mentioned for a particular message type, then the general rules, as defined either in the ODF Light Messages Interface Document should be respected for the messages described in the chapter 4 of this document.

5.1.1. ODF header

Regarding to the ODF header values, you should also follow the description in the ODF Light Messages Interface Document. However, the following attributes could be refined for each message type regarding to the header values:

- ODF Header: DocumentCode.

5.1.2. Attributes Definition

The attributes types are explained in the section “5.1.2. Attributes Definition” of the ODF Light Messages Interface Document. Please, refer to that document for further information.

5.4 Start List

5.4.1. Description

This message is the Start List message as described in the ODF Light Messages Interface Document.

5.4.2. Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values sheet).

5.4.3. Trigger and Frequency

Please, follow the general definition.

5.4.4. Message Structure

The optional elements defined for this message in the ODF Light Messages Interface Document that should be included in the case of Alpine Skiing are:

- UnitInfo
- UnitInfo /Competitor (just for UnitInfo forerunners), including Composition /Athlete
- UnitDateTime (following the general rules for this element)



- Officials /Official
- Start/Composition/Athlete/EventUnitEntry

In the next section (message values), there is a more detailed definition.

5.4.5. Message Values

The following table lists the Start List optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Alpine Skiing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
UnitInfo /Competitor /Composition /Athlete	FamilyName	M	S(25)	Family name of the forerunner associated to the UnitInfo /Competitor forerunner unit information
	GivenName	M	S(25)	Given name of the forerunner associated to the UnitInfo /Competitor forerunner unit information
UnitInfo /Competitor should be informed just in the case of UnitInfo forerunners	Organisation	M	CC @Organisa tion	Organisation ID of the forerunner associated to the UnitInfo /Competitor forerunner unit information
	Organisation Label	M	S(60)	Organisation Name
Officials /Official	Code	M	S(20) with no leading zeroes	Official ID
	Function	M	CC @Function	Send according to the codes: <ul style="list-style-type: none"> - TD_FIS - Referee - Assistant Referee (only for DH, SG and SC) - Chief of Race - Start Referee - Finish Referee - Course setter
	Order	M	Numeric	Send sequential number starting by 1 according to the official's function.
Start	StartOrder	M	Numeric	Start order of the competitor in the start list
	SortOrder	M	Numeric	Same as @StartOrder
Start /Competitor /Composition /Athlete	Bib	M	Numeric	Athlete's bib number for all events
Start /Competitor	Bib	M/O	Numeric	Team bib number for Parallel Team event

The following table describes in more detail the UnitInfo element.

Element: UnitInfo				
Type	Code	Pos	Value	Description
UI_AS	AS_ALTITUDE_START		N(4)	For @Type:



			9990	Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Start altitude in meters
	AS_ALTITUDE_FINISH		N(4) 9990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Finish altitude in meters
	AS_ALTITUDE_DROP		N(4) 9990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Vertical drop in meters
	AS_LENGTH		N(4) 9990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Length of course in meters
	AS_GRADIENT_MAX		N(2).N(2) 90.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Maximum gradient
	AS_GRADIENT_MIN		N(2).N(2) 90.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Minimum gradient
	AS_GRADIENT_AVG		N(2).N(2) 90.00	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything



				For @Value: Average gradient
	AS_COURSE_NAME		String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Course name (language English)
	AS_HOM_NUMBER		String	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Homologation number (e.g.: "4368/46/95")
	AS_NUMBER_GATES		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Number of gates
	AS_TURNING_GATES		N(3) 990	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Number of turning gates
	AS_FORERUNNER	N(3) 990	CC @ForerunnerBib	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send sequential number starting by 1 to sort the forerunners according to their bib letter For @Value: Bib letter

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
UI_AS /AS_ALTITUDE_START	Start altitude in meters	Always
UI_AS /AS_ALTITUDE_FINISH	Finish altitude in meters	Always
UI_AS /AS_ALTITUDE_DROP	Vertical drop in meters	Always



UI_AS /AS_LENGTH	Length of course in meters	Always, except for Giant Slalom , Slalom and Parallel Team Event
UI_AS /AS_GRADIENT_MAX	Maximum gradient	Always
UI_AS /AS_GRADIENT_MIN	Minimum gradient	Always
UI_AS /AS_GRADIENT_AVG	Average gradient	Always
UI_AS /AS_COURSE_NAME	Course name	Always
UI_AS /AS_HOM_NUMBER	Homologation number (e.g.: "4368/46/95")	Always
UI_AS /AS_NUMBER_GATES	Number of gates	Always
UI_AS /AS_TURNING_GATES	Number of turning gates	Always
UI_AS /AS_FORERUNNER	Forerunners and their bib letters	Always

The following table describes in more detail the EventUnitEntry element.

Element: Start/Competitor/Composition/Athlete/EventUnitEntry				
Type	Code	Pos	Value	Description
EU_AS	AS_IRM_2RUN		DNS	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Status at the beginning of the second event, only for Super Combined Events in the second event.

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
EU_AS / AS_IRM_2RUN	DNS if the athlete does not start the second Event.	Send only in the case of Super Combined for the second Event for the athletes DNS

5.4.6. Message sort

Please, follow the general definition.



5.5. Event Unit Results

5.5.1. Description

This message is the Event Unit Results message as described in the ODF Light Messages Interface Document.

5.5.2. Header Values

The DocumentCode attribute in the ODF header will be sent according to the ODF Common Codes document (header values sheet).

5.5.3. Trigger and Frequency

Please, follow the general definition.

5.5.4. Message Structure

The optional elements defined for this message in the ODF Light Messages Interface Document that should be included in the case of Alpine Skiing are:

- UnitDateTime (following the general rules for this element, however being @EndDate mandatory)
- UnitInfo
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult
- Competitor / ExtendedResults /ExtendedResult

In the next section (message values), there is a more detailed definition.

5.5.5. Message Values

The following table lists the Event Unit Results optional and/or extended attributes (defined in the ODF Light Messages Interface Document), as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Result	Rank	O	Numeric	Rank of the competitor in the corresponding event unit. This attribute is optional because the skier could get an invalid rank mark.
	ResultType	M	CC @ResultType	Result type, either time, points or IRM (see potential DSQ extended result: in this case result type would be time) for the corresponding event unit
	IRM	O	CC @IRM	IRM for the particular event unit Send just in the case @ResultType is IRM (see codes section)



Element	Attribute	M/O	Value	Comments
	Result	O	MM:SS.hh 99:90.00 Or N(2) 4	Result for the particular event unit. Send just in the case @ResultType is Time (see codes section) or Points in the case of Parallel Team Event MM is minutes, SS is seconds, hh is hundredth of second
	SortOrder	M	Numeric	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.

Send UnitDateTime including also the @EndDate attribute

The following table describes in more detail the UnitInfo element in the case of Alpine Skiing.

Element: UnitInfo				
Type	Code	Pos	Value	Description
UI_RACE_CONDITIONS	RC_AIR_TEMPERATURE_START	CC @TemperatureUnit	(-)N(3).N(1) (-)990.0	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send both codes to indicate either Celsius or Fahrenheit For @Value: Start line: Temperature in @Pos degrees (in case of positive temperature, do not send '+').
	RC_AIR_TEMPERATURE_FINISH	CC @TemperatureUnit	(-)N(3).N(1) (-)990.0	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send both codes to indicate either Celsius or Fahrenheit For @Value: Finish line: Temperature in @Pos degrees (in case of positive temperature, do not send '+').
	AS_FFACTOR		Numeric	For @Type: Send proposed type For @Code: Send proposed



				code
				For @Pos: Do not send anything
				For @Value: Send F-factor
UI_WEATHER_CONDITIONS	CC @WeatherConditions			For @Type: Send proposed type
				For @Code: Send one of the codes regarding to the weather conditions
				For @Pos: Do not send anything
				For @Value: Do not send anything
UI_SNOW_CONDITIONS	CC @SnowConditions			For @Type: Send proposed type
				For @Code: Send one of the codes regarding to the weather conditions
				For @Pos: Do not send anything
				For @Value: Do not send anything
UI_AS	AS_NUMBER_DSQ		Numeric	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Send number of disqualified athletes
	AS_NUMBER_DNF		Numeric	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Send number of did not finish athletes
	AS_NUMBER_DNS		Numeric	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything



				anything
				For @Value: Send number of did not start athletes
UI_AS_LEGEND	AS_LEGEND	N(2) 90	String	For @Type: Send proposed type For @Code: Send proposed code. In this case, each of the legends (@Pos=1, 2, ...) will be each one of the disqualification rules used in the message, appearing just once, and sorted by its rule identification. For @Pos: Sequential number from 1 to 99 for each of the legends For @Value: Text of the legend (language English) E.g.: "630.1.6 Failed to cross the gate lines between the poles of the gates with both ski tips and both feet."

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
UI_RACE_CONDITIONS /RC_AIR_TEMPERATURE_START	Start line: temperature in @Pos degrees	Always except Parallel Team event
UI_RACE_CONDITIONS /RC_AIR_TEMPERATURE_FINISH	Finish line: temperature in @Pos degrees	Always except Parallel Team event
UI_RACE_CONDITIONS/ AS_FFACTOR	F-factor in the @Value attribute	F-factor could not be informed in the case of training
UI_WEATHER_CONDITIONS /CC @WeatherConditions	Weather conditions in the @Code attribute	Always except Parallel Team event
UI_SNOW_CONDITIONS /CC @SnowConditions	Snow conditions in the @Code attribute	Always except Parallel Team event, if available
UI_AS /AS_NUMBER_DSQ	Number of disqualified athletes	Send just in the case there are disqualified athletes for all events except



		Parallel Team Event
UI_AS /AS_NUMBER_DNF	Number of did not finish athletes	Send just in the case there are did not finish athletes for all events except Parallel Team Event
UI_AS /AS_NUMBER_DNS	Number of did not start athletes	Send just in the case there are did not start athletes for all events except Parallel Team Event
UI_AS_LEGEND /AS_LEGEND	Text of the legend. (@Pos for each one of the disqualification rules used in the message, appearing just once, and sorted by its rule identification).	Send just in the case there are disqualified athletes for all events except Parallel Team Event

The following table describes in more detail the Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element.

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_AS	AS_DIFF			MM:SS.hh 99:90.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Time difference (do not send for Result @Rank=1) MM=minutes SS=seconds hh=hundredth of second
	AS_DIST_DIFF			N(4).N(2) 9990.00	For @Type: Send proposed type
					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: Distance behind (in meters) the leading competitor
	AS_POT_DSQ			Y	For @Type:



					Send proposed type For @Code: Send proposed code in case of potential DSQ For @Pos: Do not send anything For @Value: Send Y when it is a Potential DSQ
	AS_TIME			MM:SS.hh 99:90.00	For @Type: Send proposed type For @Code: Send proposed code for Parallel Team Event For @Pos: Do not send anything For @Value: Send Athlete Time
	AS_IRM			CC @IRM	For @Type: Send proposed type For @Code: Send proposed code for Parallel Team Event For @Pos: Do not send anything For @Value: IRM for the particular event unit
	AS_WIN			String	For @Type: Send proposed type For @Code: Send proposed code for Parallel Team Event For @Pos: Do not send anything For @Value: "*" when win by best time or golden run
	AS_DSQ	AS_GATE		N(3) 990	For @Type: Send proposed type (that is, the same @Code as the parent ExtendedResult element) For @Code: Send proposed extension code For @ Pos: Do not send anything For @Value: DSQ gate
		AS_RULE		String	For @Type:



				Send proposed type (that is, the same @Code as the parent ExtendedResult element) For @Code: Send proposed extension code For @ Pos: Do not send anything For @Value: Rule identifier for which the skier was disqualified (e.g.: "630.1.6")
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For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_AS /AS_DIFF	Time difference	Except Parallel Team Event, always, except for rank=1
ER_AS /AS_DIST_DIFF	Distance behind (in meters) the leading competitor	Always, except for slalom, giant slalom , super combined units and parallel team event
ER_AS /AS_POT_DSQ	Potential DSQ	Except Parallel Team Event, send for any athletes if potential DSQ
AS_TIME	Time for one athlete	Only for Parallel Team Event.
AS_IRM	IRM for one athlete	Only for Parallel Team Event.
AS_WIN	Win by best time or golden run flag	Only for Parallel Team Event.
ER_AS /AS_DSQ/AS_GATE	DSQ gate	Send just in the case the skier got a disqualification IRM
ER_AS /AS_DSQ/AS_RULE	Rule identifier for which the skier was disqualified	Send just in the case the skier got a disqualification IRM

The following table describes in more detail the Competitor /ExtendedResults /ExtendedResult element.

Element: Competitor /ExtendedResults /ExtendedResult					
Type	Code	Extension Code	Pos	Value	Description
ER_AS	AS_RESULT			String	For @Type: Send proposed type



					For @Code: Send proposed code
					For @Pos: Do not send anything
					For @Value: (n,n,n,n) with bib number of the race winners. Use "-" if race was lost and "=" as a prefix in race was tied

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_AS /AS_RESULT	Result of the event unit	Only for Parallel Team Event

5.5.6. Message sort

Please, follow the general definition.

5.6 Cumulative Results

5.6.1. Description

This message is the Cumulative Results message as described in the ODF Light Messages Interface Document.

5.6.2. Header Values

Cumulative results only apply where there is more than one event unit in the phase (Slalom, Giant Slalom, Super Combined). Therefore, this cumulative results message is after each event unit (Subtype and DocumentSubtype header attributes should be at event unit level).

5.6.3. Trigger and Frequency

Please, follow the same definition as for event unit results.

5.6.4. Message Structure

The optional elements defined for this message in the ODF Light Messages Interface Document that should be included in the case of Alpine Skiing are:

- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult

Please, remember to send the finished event units (basic results) in the ResultItems /ResultItem /Result elements as they are finished, according to the general definition of the Cumulative results message, as it is described in the ODF Light Messages Interface Description Document.

In the next section (message values), there is a more detailed definition.



					difference (do not send for Result @Rank=1)
	AS_POT_DSQ			Y	For @Type: Send proposed type For @Code: Send proposed code in case of potential DSQ For @Pos: Do not send anything For @Value: Send Y when it is a Potential DSQ
	AS_POINTS			N(2).N(2) 99.99	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Accumulated points or Race Points

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_AS /AS_DIFF	Cumulative time difference	Always, except for rank=1
ER_AS /AS_POT_DSQ	Potential DSQ	Send for any athletes if potential DSQ

5.6.6. Message sort

Please, follow the general definition.

5.7 Brackets

5.7.1. Description

This message is the Brackets message as described in the ODF Light Messages Interface Document.

In the case of Alpine Skiing, the message has to be sent just for the parallel team event.

5.7.2. Header Values

The attribute in the ODF header will be sent just for parallel team event according to the ODF Common Codes document (header values sheet).



5.7.3. Trigger and Frequency

Please, follow the general definition.

5.7.4. Message Structure

The optional elements defined for this message in the ODF Sport Messages Interface Document that should be included in the case of Snowboard (snowboard-cross and parallel giant slalom) are:

- BracketItem /ExtBracketItems /ExtBracketItem
- CompetitorPlace/Competitor /Composition

Moreover, the following should be considered:

- BracketItem /NextUnit should be informed from the quarterfinals and semifinals event units.
- BracketItem /NextUnitLoser should be informed in the case of the semifinals.
- CompetitorPlace /PreviousUnit should be informed from the semifinals and final event units

5.7.5. Message Values

The following table lists the Brackets optional and/or extended attributes (defined in the ODF Light Messages Interface Document), as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
BracketItems	Code	M	CC @BracketItemsCode	Each BracketItems should include all BracketItem grouped by their CC @BracketItemsCode.
BracketItem	Code	M	CC @BracketItemCode	Code that categorizes each bracket item

The following table describes in more detail the BracketItem /ExtBracketItems /ExtBracketItem.

Element: BracketItem /ExtBracketItems /ExtBracketItem				
Type	Code	Pos	Value	Description
ER_AS	AS_BI_ID		Numeric	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: BracketItem sequential number (to sort BracketItem @Code) whenever it is quarterfinal or semifinal.



For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_AS /AS_BI_ID	BracketItem sequential number to sort BracketItem @Code (1, 2, 3, ...)	When BracketItem @Code=heat, quarterfinal or semifinal

5.7.6. Message sort

BracketItems @Code should be sorted by Quarterfinals (ordered by heat), semifinals (1, 2) and finals (small and big).



5.8. Event Final Ranking

5.8.1. Description

This message is the Event Final Ranking message as described in the ODF Light Messages Interface Document.

5.8.2. Header Values

The DocumentCode attribute in the ODF header will be sent according for all the competition events to the ODF Common Codes document (header values sheet).

Careful! Just for Super Combined this message should be sent at phase level, to be able to send the penalty calculation

5.8.3. Trigger and Frequency

Please, follow the general definition.

5.8.4. Message Structure

The optional elements defined for this message in the ODF Light Messages Interface Document that should be included in the case of Alpine Skiing are:

- EventInfo
- Competitor /Composition /Athlete /ExtendedResults /ExtendedResult

In the next section (message values), there is a more detailed definition.

5.8.5. Message Values

The following table lists the Event Final Ranking optional attributes (defined in the ODF Sport Messages Interface Document) that are used in the case of Alpine Skiing, as well as the attributes that have an extended definition.

Element	Attribute	M/O	Value	Comments
Result	Rank	O	Numeric	Final rank of the competitor in the corresponding event. This attribute is optional because the skier may have got an invalid rank mark.
	ResultType	M	CC @ResultType	Result type, either time or IRM for the corresponding event.
	IRM	O	CC @IRM	IRM for the particular event. Send just in the case @ResultType is IRM (see codes section)



Element	Attribute	M/O	Value	Comments
	Result	O	MM:SS.hh 99:90.00	Final result for the particular event. Send just in the case @ResultType is Time (see codes section) MM is minutes, SS is seconds, hh is hundredth of second
	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 could be used to sort out rank ties as well as results without rank.

The following table describes in more detail the EventInfo element.

Element: EventInfo			
Type	Code	Value	Description
EI_AS	AS_B	N(3).N(2) 990.00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: FIS Points of Best 5 at Start (B)
	AS_A	N(3).N(2) 990.00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: FIS Points of Best at Finish in Top 10 (A)
	AS_C	N(3).N(2) 990.00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Race Points of Corresponding Competitors (C)
	AS_CALC_PTY_A_B_C	(-)N(2).N(3) (-)90.000	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Calculated Penalty (A+B-C):10
	AS_ROUNDED	(-)N(2).N(2) (-)90.00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Rounded
	AS_CATEGORY_ADDER	N(3).N(2) 990.00	For @Type: Send proposed type
			For @Code:



			Send proposed code
			For @Value: Category adder
	AS_Z	N(3).N(2) 990.00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Correction value (Z)
	AS_CALC_PTY	(-)N(3).N(2) (-)990.0	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Calculated penalty
	AS_PTY_APPL	(-)N(3).N(2) (-)990.00	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Penalty applied

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
EI_AS /AS_B	FIS Points of Best 5 at Start (B)	Always
EI_AS /AS_A	FIS Points of Best at Finish in Top 10 (A)	Always
EI_AS /AS_C	Race Points of Corresponding Competitors (C)	Always
EI_AS / AS_CALC_PTY_A_B_C	Calculated Penalty (A+B-C):10	Always
EI_AS /AS_ROUNDED	Rounded	Always
EI_AS /AS_CATEGORY_ADDER	Category adder	Always
EI_AS /AS_Z	Correction value (Z)	Always
EI_AS /AS_CALC_PTY	Calculated penalty	Always
EI_AS /AS_PTY_APPL	Penalty applied	Always

The following table describes in more detail the Competitor /Composition /Athlete /ExtendedResults /ExtendedResult element.

Element: Competitor /Composition /Athlete /ExtendedResults /ExtendedResult			
Type	Code	Value	Description
ER_AS	AS_DIFF	MM:SS.hh 99:90.00	For @Type: Send proposed type
		MM=minutes SS=seconds hh=hundredth of second	For @Code: Send proposed code
			For @Value: Time difference (do not send for Result @Rank=1)
	AS_RACE_POINTS	N(4).N(2) 9990.00	For @Type: Send proposed type
			For @Code: Send proposed code



			For @Value: Race points
	AS_BEST_START	N(3) 990	For @Type: Send proposed type
			For @Code: Send proposed code
			For @Value: Numeric to sort the best skiers according to their FIS points at the start of the event

For the table above, we have the following additional/summary information:

Type /Code	Description	Expected
ER_AS /AS_DIFF	Time difference	Always, except for rank=1
ER_AS /AS_RACE_POINTS	Race points	Always
ER_AS /AS_BEST_START	Best skiers according to their FIS points at the start of the even	Always, for the top 5 skiers

5.8.6. Message sort

Please, follow the general definition.



5.9. Event's Medallists

5.9.1. Description

This message is the Event's Medallists message as described in the ODF Sport Messages Interface Document.

5.9.2. Header Values

The DocumentCode attribute in the ODF header will be sent according for all the competition events to the ODF Common Codes document (header values sheet).

5.9.3. Trigger and Frequency

Please, follow the general definition.

5.9.4. Message Structure

Please, follow the general definition.

5.9.5. Message Values

Please, follow the general definition.

5.9.6. Message sort

Please, follow the general definition.



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