



INTERNATIONAL OLYMPIC COMMITTEE

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## Olympic Data Feed

### **ODF Paralympic Alpine Skiing Data Dictionary**

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Technology Department  
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# 1. Introduction

## 1.1. This document

This document includes the ODF Paralympic Alpine Skiing Data Dictionary. This document describes the differences between the Olympic Alpine Skiing Data Dictionary and the Paralympic Alpine Skiing Data Dictionary

## 1.2. Objective

The objective of this document is to provide a formal definition of the ODF Paralympic Alpine Skiing Data Dictionary based in the ODF Olympic 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

Acronym	Description
<b>IF or International Federation</b>	The international governing body of an Olympic Sport as recognized by the IOC
<b>IOC</b>	International Olympic Committee
<b>IPC</b>	International Paralympic Committee
<b>NOC</b>	National Olympic Committee recognized as such by the IOC
<b>NPC</b>	National Paralympic Committee as recognized by the IPC
<b>ODF</b>	Olympic Data Feed
<b>ODF Light</b>	It is a type of ODF message that includes extensions to standard ODF messages in order to resolve references between messages and common codes. These extensions facilitate the message processing for ODF customers
<b>ODF-PiT</b>	Olympic Data Feed Point in Time, messages that are generated at certain point during competition
<b>ODF-RT</b>	Olympic Data Feed Real Time, messages that are generated when available
<b>OPNS</b>	Olympic and Paralympic News Service
<b>RSC</b>	Results System Codes, determine uniquely one unit of the competition, specifying the discipline, gender, event, phase and unit.
<b>Sport</b>	is administered by an international federation and can be



	composed of one or more disciplines
<b>WNPA</b>	World News Press Agencies

## 1.5. Related Documents

Document Reference	Document Title	Document Description
ODF/INT001	ODF Message Transmission Document	This document describes the technical standards to be used to transfer ODF messages between the message generators and the final ODF users
ODF/COD001	ODF Common Codes Document	This document describes the ODF codes used across the rest of the ODF documents
ODF/INT004	ODF General Messages Interface Document	This document describes the ODF general messages

Document Reference	Document Title	Document Description
ODF/INT005	ODF Alpine Skiing Data Dictionary	This document describes the Olympic Alpine Skiing Data Dictionary



## 2. Overall Perspective

### 2.1. Objective

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

### 2.2. End to End data flow

In the following chapters, for each ODF message the general description, header values, triggers and frequency, structure, values and sort of the message will be defined.



### 3. Codes

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary, taking in account following changes for Para Snowboard Cross event (PSBX):

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
	F	F
(or, for PSBX event):	F1	F1
	F2	F2
	F3	F3
	F4	F4
	F5	F5
	F6	F6
CC @QualificationMark  (just for PSBX event)	Code	Description
Q	Qualified for Final	

### 4. Messages definition

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary.





## 5. Messages

### 5.1. Applicable Messages

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary (except the Federation Ranking message not used in PARAS, and taking in account following changes for Para Snowboard Cross event (PSBX):

Message Type	Message name	Feed	Message used in this sport	Message extended in this document
DT_PHASE_RESULT	Phase Results	PiT	X	X
DT_RT_PHASE_RESULT	RT Phase Results	RT	X	X

### 5.2. Point in Time Messages

#### 5.2.1. List of Participants by discipline / List of Participants by discipline update

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account following changes for Paralympics:

##### Message structure

Participant /Discipline /RegisteredEvent /EventEntry element is used

##### Participant /Discipline /RegisteredEvent Element

Following attributes are redefined:

Element	Attribute	M/O	Value	Comments
RegisteredEvent	Class	M	CC @SportClass	To be provided for all athletes.
	Guide	O	S(20) with no leading zeroes	To be provided for Visually Impaired events.

##### Participant /Discipline /RegisteredEvent /EventEntry Element

Following EventEntries are added:

Element: EventEntry				
Type	Code	Pos	Value	Description
E_ENTRY	E_PERCENTAGE		N.N(4) 0.0000	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do no send anything
				For @Value: Athlete Percentage (do not send for PSBX events)
	E_BIB		S(4)	String For @Type:



				Send proposed type
				For @Code: Send proposed code
				For @Pos : Do not send anything
				For @Value: Guide bib number (e.g.: "G10" for guide of athlete with bib number 10) (only for Visually Impaired events).

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

Type / Code	Description	Expected
E_ENTRY / E_PERCENTAGE	Athlete's percentage.	Always, as soon as this information is known (except for PSBX events)
E_ENTRY / E_BIB	Guide Bib Number	Just for Guides in Visually Impaired events

### 5.2.2. Start List

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account following changes for Paralympics, and for Para Snowboard Cross event (PSBX):

#### Trigger and Frequency

After the draw is approved (for Run 1 & One run events & PSBX)  
 After the results are approved (for Run 2 events and PSBX)

#### UnitInfos /UnitInfo Element

Following UnitInfo codes are added/redefined (for PSBX event):

Element: UnitInfos /UnitInfo				
Type	Code	Pos	Value	Description
UI_AS	AS_FEATURES		N(2) 90	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Do not send anything
				For @Value: Number of features
	AS_FORERUNNER	N(2) 99	CC @ForerunnerBib	For @Type: Send proposed type
				For @Code: Send proposed code
				For @Pos: Send the sequential number, starting by 1, to sort the forerunners according to their bib letter
				For @Value: Forerunners bib (letter and



				number, in upper case) (e.g.: F1, F2 ...)
--	--	--	--	--

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

Type / Code	Description	Expected
UI_AS / AS_NUMBER_GATES	Number of gates	Always (except for PSBX)
UI_AS / AS_TURNING_GATES	Number of turning gates	Always, except for Downhill and PSBX
UI_AS / AS_FEATURES	Number of features	Just for PSBX
UI_AS / AS_FORERUNNER	Forerunners and their bib letters	Always

**Officials /Official Element**

Following attributes values are redefined (for **PSBX** all events):

Element	Attribute	M/O	Value	Comments
Officials /Official  (Officials associated to the event unit)	Function	M	CC @Function	<p>Official's function associated to the event unit.</p> <p>Send the function code for: (for the event PSBX):</p> <ul style="list-style-type: none"> <li>- IPC Technical Delegate (<del>IPC_TDL</del>)</li> <li>- IPC Race Director/Referee (<del>IPC_RCDR</del>)</li> <li>- Technical Delegate (<del>TCH_DLG</del>)</li> <li>- IPCAS Race Director (<del>IPC_RDR</del>)</li> <li>- Chief of Competition (<del>CHF_CMP</del>)</li> <li>- Chief of Finish (<del>CHF_FSH</del>)</li> <li>- Start Referee (<del>STR_RFR</del>)</li> <li>- Finish Referee (<del>FSH_RFR</del>)</li> <li>- Video Controller (<del>VID_CTL</del>)</li> <li>- Chief of Para Snowboard Cross (<del>CHF_PSBX</del>)</li> <li>- Course Builder (<del>CRS_BLD</del>)</li> <li>- Course Setter (<del>CRS_STR</del>)</li> </ul> <p>(for events DH, SG, SL, GS, SC):</p> <ul style="list-style-type: none"> <li>- Technical Delegate (<del>TCH_DLG</del>)</li> <li>- IPCAS Race Director (<del>IPC_RDR</del>)</li> <li>- Chief of Race (<del>CHF_RCE</del>)</li> <li>- Referee (<del>RFR</del>)</li> <li>- Assistant Referee (<del>AST_RFR</del>)</li> </ul> <p>(only for DH, SG and SC)</p> <ul style="list-style-type: none"> <li>- Start Referee (<del>STR_RFR</del>)</li> <li>- Finish Referee (<del>FSH_RFR</del>)</li> <li>- Video Controller (<del>VID_CTL</del>)</li> <li>- Course Setter (<del>CRS_STR</del>)</li> </ul>

**5.2.3. Event Unit Results**

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account following changes for Paralympics:

**General Change**



AS\_DIST\_DIFF ExtendedResults/ExtendedResult code is not needed.

AS\_INTERMEDIATE/AS\_DIFF ExtendedResults/ExtendedResult/Extension code is not needed.

All times and ranks in the Paralympic message are the calculated ones.

- For Para Snowboard Cross event (PSBX):

Only AS\_CURRENT, AS\_NEXT and AS\_LAST\_FINISHED ExtendedResults/ExtendedResult codes are needed (in RT message).

### 5.2.4. Cumulative Results

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account Cumulative Results message changes (updated Header Values), and following changes for Paralympics:

#### General Change

AS\_INTERMEDIATE/AS\_DIFF ExtendedResults/ExtendedResult/Extension code is not needed.

All times and ranks in the Paralympic message are the calculated ones.

Do not send for Para Snowboard Cross event (PSBX).

### 5.2.5. Phase Results

#### 5.2.5.1. Description

The Phase Results is a message containing the results for the list of competitors in a particular phase.

The Phase results message is a generic message for all sports, including as much generic information as possible, considering results may have substantial differences between different disciplines and events (example: score of a match, time in a race, distance in a throw, etc.).

In Alpine Skiing, this message only is provided for the phase the different phases (Qualification and Final) of Para Snowboard Cross events (PSBX).

#### 5.2.5.2. Header Values

The following table describes the ODF header attributes

Attribute	Value	Comment
-----------	-------	---------



DocumentCode	DDGEEEEP00	DD according to CC @Discipline G according to CC @DisciplineGender EEE according to CC @Event P according to CC @Phase
DocumentType	DT_PHASE_RESULT	Phase Results message
ResultStatus	CC @ResultStatus	It indicates whether the result is official or unofficial
Version	1...V	Refer to the ODF header definition
FeedFlag	"P"-Production "T"-Test	Refer to the ODF header definition
Date	Date	Refer to the ODF header definition
Time	MillisTime	Refer to the ODF header definition
LogicalDate	Date	Refer to the ODF header definition
Venue	CC @VenueCode	Venue code where the message is being generated
Serial	Numeric	Refer to the ODF header definition

5.2.5.3. Trigger and Frequency

This message is sent as soon as each event unit for the corresponding phase finishes and the message becomes unofficial just at the end of the event unit, and afterwards when the message becomes official (when each event unit of the phase becomes official). The official/unofficial status can be seen in ODF header (ResultStatus attribute).

Trigger also after any major change.



5.2.5.4. Message Structure

The following table defines the general structure of the Phase Result message. Elements with minimum cardinality 0 (or optional elements) may not apply for a specific sport.

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10
Competition									
	<i>Code</i>								
	ExtendedInfos (0,1)								
		ExtendedInfo (1..N)							
			<b>Type</b>						
			<b>Code</b>						
			<i>Pos</i>						
			<i>Value</i>						
			Extensions (0,1)						
				Extension (1..N)					
						<i>Type</i>			
						<i>Code</i>			
						<i>Pos</i>			
						<i>Value</i>			
	Result (1..N)								
		<i>Rank</i>							
		<i>RankEqual</i>							
		<i>ResultType</i>							
		<i>Result</i>							
		<i>IRM</i>							
		<i>QualificationMark</i>							
		<i>SortOrder</i>							
		RecordIndicators (0,1)							
			RecordIndicator (1..N)						
				<i>Order</i>					
				<i>Code</i>					
				<i>RecordType</i>					
		Competitor							
			<b>Code</b>						
			<i>Type</i>						
			<i>Bib</i>						



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			ExtendedResults (0,1)						
				ExtendedResult (1..N)					
					<b>Type</b>				
					<b>Code</b>				
					<b>Pos</b>				
					<i>Value</i>				
					Extensions (0,1)				
						Extension (1..N)			
							<b>Type</b>		
							<b>Code</b>		
							<b>Pos</b>		
							<i>Value</i>		
			Composition (0,1)						
				Athlete (1..N)					
					<b>Code</b>				
					<i>Order</i>				
					<i>Bib</i>				
					ExtendedResults (0,1)				
						ExtendedResult (1..N)			
							<b>Type</b>		
							<b>Code</b>		
							<b>Pos</b>		
							<i>Value</i>		
							Extensions (0,1)		
								Extension (1..N)	
									<b>Type</b>
									<b>Code</b>
									<b>Pos</b>
									<i>Value</i>

The elements Key are marked in bold for the Real Time. All the parents' elements key must to be sent if a child value has changed, also all the mandatory elements must be sent.

The optional elements defined for this message that should not be included in the case of Alpine Skiing are:



<b>Optional message elements not used for Alpine Skiing</b>
ExtendedInfos /ExtendedInfo
ExtendedInfos /ExtendedInfo /Extensions /Extension
Result /RecordIndicators /RecordIndicator
Result /Competitor /ExtendedResults /ExtendedResult
Result /Competitor /ExtendedResults /ExtendedResult /Extensions /Extension
Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extensions /Extension





5.2.5.5. Message Values

**Competition Element**

Element	Attribute	M/O	Value	Comments
Competition	Code	M	CC @Competition	Unique ID for competition

**ExtendedInfos /ExtendedInfo Element**

Not used for Alpine Skiing

**ExtendedInfos /ExtendedInfo /Extensions /Extension Element**

Not used for Alpine Skiing

**Result Element**

Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
Result  (For any Phase Results message, there should be at least one competitor being awarded a result for the phase)	Rank	O	Numeric  Or blank (for Run1)	Rank of the competitor in the corresponding phase (after each run, for run 1 will be empty).  This attribute is optional because the skier could get an invalid rank mark.	N	T3
	RankEqual	O	S(1) (Y,N)	It identifies if a rank has been equalled.  In PiT message only Y value has sense.	N	T3
	ResultType	O	CC @ResultType	Result type, either time or IRM for the corresponding phase results (see codes section).  In PiT message this attribute is mandatory.	N	T3
	Result	O	M:SS.tt 9:90.00  Or blank (for Run1)	The result of the competitor in the phase. Total of the best two runs (after each run, for run 1 will be empty have the same result than event unit).  Send just in the case	N	T3



Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
				@ResultType is Time (see codes section)  Use Time format: M is minutes SS is seconds tt is hundredths of second		
	IRM	O	CC @IRM	The invalid rank mark, in case it is assigned.  Send just in the case @ResultType is IRM (see codes section)	N	T3
	QualificationMark	O	CC @QualificationMark  Or blank	Send just in the case the competitor is qualified for Final according to the codes.  It will be basically used after third run in Qualification phase.  Send when information is known and it is not going to change, for example, if there are 20 athletes competing and 6 are qualifying, when the 15th competitor finishes there is one competitor that is going to qualify for sure.  Blank for non-qualified.	N	T3
	SortOrder	M	Numeric	Used to sort all results in a phase, based on rank, but to break rank ties, etc. It is mainly used for display purposes.	N	T3

**Result /RecordIndicators /RecordIndicator Element**

Not used for Alpine Skiing

**Result /Competitor Element**

Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
Result /Competitor (Competitor related to one phase result)	Code	M	S(20) with no leading zeroes	Competitor's ID (in this case Athlete's ID, for Competitor @Type=A)	N	T3
	Type	M	A	A for athlete	N	T3



**Result /Competitor /ExtendedResults /ExtendedResult Element**  
 Not used for Alpine Skiing

**Result /Competitor /ExtendedResults /ExtendedResult / Extensions /Extension Element**  
 Not used for Alpine Skiing

**Result /Competitor /Composition /Athlete Element**

Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
Result /Competitor /Composition /Athlete	Code	M	S(20) with no leading zeroes	Athlete's ID, corresponding to a single athlete	N	T3
	Order	M	Numeric	Order attribute Send 1 for Competitor @Type="A"	N	T3
	Bib	M	N(3) 999	Athlete's bib number	N	T3

**Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult Element**

Type	Code	Extension Code	Pos	Value	Description
ER_AS	AS_DIFF			M:SS.tt 9:90.00  Or  blank (for leader)	For @Type: Send proposed type  For @Code: Send proposed code  For @Pos: Do not send anything  For @Value: Time difference for the athlete behind of the leader (send just in the case @ResultType is Time). It is the time difference in regards to the total time (best 2 runs) after run 1, or to the result time for Run 1.  Send blank if the athlete is the leader (for Result @Rank=1).



Type	Code	Extension Code	Pos	Value	Description
					Use Time format: M is minutes SS is seconds tt is hundredths of second
	AS_BEST_RUN		N(1) 9	S(1) (Y,N)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send the Run (1, 2 or 3) For @Value: Send "Y" if best run, "N" in other case. (i.e.: after run 1: only (1) to Y, after run 2: (1) and (2) to Y, after run 3: only 2 runs to Y)
	AS_LAST_QUALIFIED			S(1) (Y,N)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send to Y when competitor is the last competitor qualified according to sport rules.

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

Type /Code	Description	Expected	RT Only	RT Trigger
ER_AS / AS_DIFF	Time difference for the athlete to the leader (difference in regards to the total time -best 2 runs-, or to the result time for Run 1).	Always	N	T3
ER_AS / AS_BEST_RUN	Best run indicator.	Always	N	T3
ER_AS / AS_LAST_QUALIFIED	Y if the competitor is the last one to qualify according to rules. It is the virtual last qualified position in the current moment.	Just in Qualification phase (after run 3)	N	T3

**Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extensions /Extension Element**  
Not used for Alpine Skiing

5.2.5.6. Message sort



Sort by Result @SortOrder.

### 5.2.6. Event Final Ranking

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account following changes for Paralympics:

#### General Change

AS\_F\_FACTOR EventInfos /EventInfo code is not needed.

All times and ranks in the Paralympic message are the calculated ones.

- For Para Snowboard Cross event (PSBX): The element EventInfos/EventInfo is not used.

### 5.2.7. Medallists of one event

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary.

### 5.2.8. Event Unit Weather Conditions

Please refer to the same section of the ODF Olympic Alpine Skiing Data.

### 5.2.9. Discipline Configuration

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account following changes for Paralympics, for Para Snowboard Cross event (PSBX):

#### Configs /Config /ExtendedConfig Element

Only AS\_ALTITUDE\_FINISH, AS\_VERTICAL\_DROP and AS\_FIS\_CODEX\_NO codes are needed.

Following ExtendedConfig code is added (for PSBX event):

Type	Code	ExtendedConfigItem Code	Pos	Value	Description
EC_QUALIFICATION_RULE	QR_RANK_QUALIFY_NEXT_ROUND (Send by phase)		N(1) 9	N(2) 90	For @Type: Send proposed type
					For @Code: Send proposed code for the qualification rule.
					QR_RANK_QUALIFY_NEXT_ROUND is the code that



				<p>indicates the qualification for next round based on rank.</p> <p>For @Pos: Send 1 to indicate first rank included in the @Code rule. Send 2 to indicate last rank included in the @Code rule.</p> <p>For @Value: Send the rank according to @Code rule and @Pos (i.e.: for Men's PSBX Qualification phase, will be: Pos=1, Value=1 Pos=2, Value=16 It means 1-16 ranks from the current phase will qualify to the next phase).</p>
--	--	--	--	---

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

Type /Code /ExtendedConfigItem Code	Description	Expected
EC_QUALIFICATION_RULE /QR_RANK_QUALIFY_NEXT_ROUND	Qualification rule for next round based on rank.	Just for PSBX event. Send by phase (except for Final), always if the rule applies to the competition.

### 5.3. Real Time Messages

#### 5.3.1. RT Event Unit Results

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account Event Unit Results message changes

#### 5.3.2. RT Cumulative Results

Please refer to the same section of the ODF Olympic Alpine Skiing Data Dictionary taking in account Cumulative Results message changes (updated Header Values)

#### 5.3.3. RT Phase Results

##### 5.3.3.1. Description

The RT Phase Results is a message containing the real time results for the list of competitors in a particular phase.



This message is very similar to the equivalent Pit messages. Both messages share message structure. The main difference is that in Real Time the “Result” element is optional because there is data such as the weather information known before any result is awarded and other information that might be sent not related to any results.

5.3.3.2. Header Values

The following table describes the ODF header attributes

Attribute	Value	Comment
DocumentCode	DDGEEEP00	DD according to CC @Discipline G according to CC @DisciplineGender EEE according to CC @Event P according to CC @Phase
DocumentType	DT_RT_PHASE_RESULT	Phase Results message
ResultStatus	“LIVE_UPDATE” / “LIVE_FULL” / “LIVE_MANDATORY” / “LIVE_LAST”	Refer to the ODF header definition
Version	1..V	Refer to the ODF header definition
FeedFlag	“P”-Production “T”-Test	Refer to the ODF header definition
Date	Date	Refer to the ODF header definition
Time	MillisTime	Refer to the ODF header definition
LogicalDate	Date	Refer to the ODF header definition
Venue	CC @VenueCode	Venue code where the message is being generated
RTSerial	Numeric	Incremental and unique number for each RT message.
Serial	Numeric	Refer to the ODF header definition

5.3.3.3. Trigger and Frequency

- For ResultStatus=LIVE\_UPDATE:

These are a set of triggers, which will be linked to a set of information to be included in the message. It should not be included data if not changed in regards to the previous data sent.

- T1: Trigger at the beginning of the unit
- T2: Trigger when a competitor starts (is on course)



- T3: Trigger as soon as the time is available for a competitor or there is change in competitor's rank (crosses finish line).
- For ResultStatus=LIVE\_FULLL:  
  
Send as it will be defined for each RT transmission in the parameters of the DT\_RT\_GM message.
- For ResultStatus=LIVE\_MANDATORY  
  
Send when a correction in the previous messages has been done.
- For ResultStatus=LIVE\_LAST  
  
Send as the last message (that indicates that no new messages are expected for the given ODF unique key, unless something unexpected, that needs correction of previous messages data, happens while the transmission is still open (Good night message has not been sent).





5.3.3.4. Message Structure

Following table defines the general structure of the Real Time Phase Results message.

The structure of this message is the same as for the Phase Results (DT\_PHASE\_RESULT) message, with the following considerations:

- For the LIVE\_UPDATE message:
  - It is an incremental message containing information being updated
  - Do not include the Result element attributes if no information is available, for example before competitors cross the finish line.
  - Depending on the performance, a LIVE\_UPDATE message that should be generated for one specific trigger could be split in several messages in order not to make a too big message for some triggering conditions.
- For the LIVE\_FULL, LIVE\_MANDATORY and LIVE\_LAST message:
  - It includes all data provided until now in “Live update” messages.

Competition									
	<i>Code</i>								
	ExtendedInfos (0,1)								
		ExtendedInfo (1..N)							
			<b>Type</b>						
			<b>Code</b>						
			<b>Pos</b>						
			<b>Value</b>						
			Extensions (0,1)						
				Extension (1..N)					
					<b>Type</b>				
					<b>Code</b>				
					<b>Pos</b>				
					<b>Value</b>				



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	Result (1..N)								
		<i>Rank</i>							
		<i>RankEqual</i>							
		<i>ResultType</i>							
		<i>Result</i>							
		<i>IRM</i>							
		<i>QualificationMark</i>							
		<i>SortOrder</i>							
		RecordIndicators (0,1)							
			RecordIndicator (1..N)						
				<i>Order</i>					
				<i>Code</i>					
				<i>RecordType</i>					
		Competitor							
			<b>Code</b>						
			<i>Type</i>						
			<i>Bib</i>						
			ExtendedResults (0,1)						
				ExtendedResult (1..N)					
					<b>Type</b>				
					<b>Code</b>				
					<b>Pos</b>				
					<i>Value</i>				
					Extensions (0,1)				
						Extension (1..N)			
							<b>Type</b>		
							<b>Code</b>		
							<b>Pos</b>		
							<i>Value</i>		
			Composition (0,1)						
				Athlete (1..N)					
					<b>Code</b>				
					<i>Order</i>				
					<i>Bib</i>				
					ExtendedResults (0,1)				
						ExtendedResult (1..N)			
							<b>Type</b>		
							<b>Code</b>		
							<b>Pos</b>		
							<i>Value</i>		
							Extensions (0,1)		
								Extension (1..N)	



									<b>Type</b>
									<b>Code</b>
									<b>Pos</b>
									<b>Value</b>

Key of each element is bolded. All parents' keys and mandatory attributes and elements must be sent if a child value changes.

The optional elements defined for this message that should not be included in the case of Alpine Skiing are:

<b>Optional message elements not used for Alpine Skiing</b>
ExtendedInfos /ExtendedInfo
ExtendedInfos /ExtendedInfo /Extensions /Extension
Result /RecordIndicators /RecordIndicator
Result /Competitor /ExtendedResults /ExtendedResult
Result /Competitor /ExtendedResults /ExtendedResult /Extensions /Extension
Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extensions /Extension



5.3.3.5. Message Values

**Competition Element**

Element	Attribute	M/O	Value	Comments
Competition	Code	M	CC @Competition	Unique ID for competition

**ExtendedInfos /ExtendedInfo Element**

Not used for Alpine Skiing

**ExtendedInfos /ExtendedInfo /Extensions /Extension Element**

Not used for Alpine Skiing

**Result Element**

Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
Result  (For any Phase Results message, there should be at least one competitor being awarded a result for the phase)	Rank	O	Numeric  Or  blank (for Run1)	Rank of the competitor in the corresponding phase (after each run, for run 1 will be empty).  This attribute is optional because the skier could get an invalid rank mark.	N	T3
	RankEqual	O	S(1) (Y,N)	It identifies if a rank has been equalled.  In PiT message only Y value has sense.	N	T3
	ResultType	O	CC @ResultType	Result type, either time or IRM for the corresponding phase results (see codes section).  In PiT message this attribute is mandatory.	N	T3
	Result	O	M:SS.tt 9:90.00  Or  blank (for Run1)	The result of the competitor in the phase. Total of the best two runs (after each run, for run 1 will be empty have the same result than event unit).  Send just in the case @ResultType is Time	N	T3



Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
				(see codes section)  Use Time format: M is minutes SS is seconds tt is hundredths of second		
	IRM	O	CC @IRM	The invalid rank mark, in case it is assigned.  Send just in the case @ResultType is IRM (see codes section)	N	T3
	QualificationMark	O	CC @QualificationMark  Or blank	Send just in the case the competitor is qualified for Final according to the codes.  It will be basically used after third run in Qualification phase.  Send when information is known and it is not going to change, for example, if there are 20 athletes competing and 6 are qualifying, when the 15th competitor finishes there is one competitor that is going to qualify for sure.  Blank for non-qualified.	N	T3
	SortOrder	M	Numeric	Used to sort all results in a phase, based on rank, but to break rank ties, etc. It is mainly used for display purposes.	N	T3

**Result /RecordIndicators /RecordIndicator Element**

Not used for Alpine Skiing

**Result /Competitor Element**

Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
Result /Competitor (Competitor related to	Code	M	S(20) with no leading zeroes	Competitor's ID (in this case Athlete's ID, for Competitor @Type=A)	N	T3



Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
one phase result)	Type	M	A	A for athlete	N	T3

**Result /Competitor /ExtendedResults /ExtendedResult Element**  
 Not used for Alpine Skiing

**Result /Competitor /ExtendedResults /ExtendedResult / Extensions /Extension Element**  
 Not used for Alpine Skiing

**Result /Competitor /Composition /Athlete Element**

Element	Attribute	M/O	Value	Comments	RT Only	RT Trigger
Result /Competitor /Composition /Athlete	Code	M	S(20) with no leading zeroes	Athlete's ID, corresponding to a single athlete	N	T3
	Order	M	Numeric	Order attribute Send 1 for Competitor @Type="A"	N	T3
	Bib	M	N(3) 999	Athlete's bib number	N	T3

**Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult Element**

Type	Code	Extension Code	Pos	Value	Description
ER_AS	AS_DIFF			M:SS.tt 9:90.00  Or  blank (for leader)	For @Type: Send proposed type  For @Code: Send proposed code  For @Pos: Do not send anything  For @Value: Time difference for the athlete behind of the leader (send just in the case @ResultType is Time). It is the time difference in regards to the total time (best 2



Type	Code	Extension Code	Pos	Value	Description
					runs) after run 1, or to the result time for Run 1.  Send blank if the athlete is the leader (for Result @Rank=1).  Use Time format: M is minutes SS is seconds tt is hundredths of second
	AS_BEST_RUN		N(1) 9	S(1) (Y,N)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Send the Run (1, 2 or 3) For @Value: Send "Y" if best run, "N" in other case. (i.e.: after run 1: only (1) to Y, after run 2: (1) and (2) to Y, after run 3: only 2 runs to Y)
	AS_LAST_QUALIFIED			S(1) (Y,N)	For @Type: Send proposed type For @Code: Send proposed code For @Pos: Do not send anything For @Value: Send to Y when competitor is the last competitor qualified according to sport rules.

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

Type /Code	Description	Expected	RT Only	RT Trigger
ER_AS / AS_DIFF	Time difference for the athlete to the leader (difference in regards to the total time -best 2 runs-, or to the result time for Run 1).	Always	N	T3
ER_AS / AS_BEST_RUN	Best run indicator.	Always	N	T3
ER_AS / AS_LAST_QUALIFIED	Y if the competitor is the last one to qualify according to rules. It is the virtual last qualified position in the current moment.	Just in Qualification phase (after run 3)	N	T3

**Result /Competitor /Composition /Athlete /ExtendedResults /ExtendedResult /Extensions /Extension Element**  
Not used for Alpine Skiing



5.3.3.6. Message sort

Sort by Result @SortOrder

## 5.4. PDF Messages

Please refer to the ODF Olympic Alpine Skiing Data Dictionary.





## DOCUMENT CONTROL

### Version history

Version	Date	Comments
R3 v1.0	12 Mar 2012	Reviewer comments included
R3 v1.1	5 Apr 2012	Some minor changes
R3 v2.0	8 May 2012	Comments included after IDM and Submitted for Approval version
R3 v3.0	31 Jul 2012	Pre-integration comments included (after first cycle). And after WNPA meeting changes: ODF light information deletion and new messages proposal (DRAFT)
R3 v3.1	6 Sep 2012	Pre-integration comments included (after second cycle) - (DRAFT)
R3 v3.2	28 Sep 2012	Pre-integration comments included (after second cycle): DT_CONFIG - codes revision). ODF Light and more changes applied (CR306, IR202, IR196) - (SFR version)
R3 v3.3	11 Oct 2012	Reviewer Comments included - (SFA version)
R3 v3.4	14 Dec 2012	Some minor issues - (APP version)
R3 v4.0	26 Mar 2013	CR472 applied - new event (SFR version)
R3 v4.1	29 Apr 2013	Reviewer Comments included - (SFA version)
R3 v4.1	10 May 2013	(APP version)
R3 v4.2	09 Aug 2013	Changes applied (CR666, CR906 and CR974), and some minor corrections.
R3 v4.3	20 Sep 2013	Change applied (CR1297)
R3 v4.4	11 Oct 2013	Change applied (CR1682)
R3 v5.0	12 Dec 2013	Change applied (CR1614)
R3 v5.1	12 Dec 2013	Change applied (CR2515)

**File reference:** ODF/INT090-R3-v5.1 APP (AS)



## Change Log

Version	Status	Changes on version
R3 v1.0	SFR	<ul style="list-style-type: none"> <li>• First version</li> </ul>
R3 v1.1	SFR	<ul style="list-style-type: none"> <li>• New IOC logos</li> <li>• Removed the general comment that for Paralympics the Downhill event will be a one run event, it could be also a 2 runs event (as for Olympics).</li> <li>• List of participants by discipline (and update): Added the code of the Bib number for guides in Visually Impaired events.</li> </ul>
R3 v2.0	SFA	<ul style="list-style-type: none"> <li>• Submitted for Approval version</li> <li>• Same comments applied on Olympic (if applicable).</li> <li>• DT_FED_RANKING message will not be used for PARAS.</li> </ul>
R3 v3.0	DRAFT	<p>(after pre-integration cycle-1):</p> <ul style="list-style-type: none"> <li>• Same comments applied on Olympic (if applicable).</li> <li>• DT_RESULT / DT_CUMULATIVE_RESULT: The extension code AS_INTERMEDIATE/AS_DIFF is not used.</li> <li>• DT_RANKING: The code AS_F_FACTOR is not used.</li> </ul> <p>(after WNPA meeting):</p> <ul style="list-style-type: none"> <li>• Deletion extensions proposal: ODF Light extensions from the DT_START_LIST message (marked in pink colour). These extensions should be deleted at the moment that these changes are approved until then they should be still used.</li> <li>• Deletion messages proposal: DT_RESULT_SUMMARY and DT_RT_RESULT_SUMMARY (marked in pink colour). These messages should be deleted at the moment that these changes are approved until then the deprecated messages should be still used.</li> <li>• New messages proposal: Added DT_PHASE_RESULT, DT_RT_PHASE_RESULT, DT_CUMULATIVE_RESULT and DT_RT_CUMULATIVE_RESULT messages in order to be used instead of DT_RESULT_SUMMARY and DT_RT_RESULT_SUMMARY (marked in blue colour). In this case, added the definition of DT_CUMULATIVE_RESULT and DT_RT_CUMULATIVE_RESULT messages. These messages should be used at the moment that these changes are approved until then the deprecated messages should be still used.</li> </ul>
R3 v3.1	DRAFT	<p>(after pre-integration cycle-2):</p> <ul style="list-style-type: none"> <li>• DT_RT_RESULT (for the second run only): Same comments applied on Olympic (added codes AS_LEADER_START_TIME and AS_START_DIFF).</li> </ul>
R3 v3.2	SFR	<ul style="list-style-type: none"> <li>• Light extensions (renamed to Embedded): ODF Light extensions from the DT_START_LIST and DT_CUMULATIVE_RESULT Messages marked in pink colour. These extensions will be deleted at the moment that these changes are implemented by Omega for Non-Olympics projects from those messages and included in new messages.</li> <li>• Non-light extension: The PreviousResults elements on the DT_START_LIST message are defined as part of the message.</li> <li>• Removed messages: DT_RESULT_SUMMARY and DT_RT_RESULT_SUMMARY.</li> <li>• New messages: Added the definition of DT_CUMULATIVE_RESULT and DT_RT_CUMULATIVE_RESULT messages. These messages should be used (instead of DT_RESULT_SUMMARY and DT_RT_RESULT_SUMMARY).</li> <li>• Unified structure of messages DT_RESULT/DT_CUMULATIVE_RESULT: <ul style="list-style-type: none"> <li>▪ CumulativeResults element of DT_CUMULATIVE_RESULT and DT_RT_CUMULATIVE_RESULT renamed to Results.</li> <li>▪ Bib attribute added to Athlete element of the DT_CUMULATIVE_RESULT and DT_RT_CUMULATIVE_RESULT messages.</li> </ul> </li> <li>• DT_EXTRA_DATA and DT_RT_EXTRA_DATA messages renamed to DT_PLAY_BY_PLAY and DT_RT_PLAY_BY_PLAY.</li> <li>• SortOrder attribute clarified so that any result sort order change from the initial start list order will be provided in the SortOrder attribute (or any extension used to sort</li> </ul>



## Change Log

Version	Status	Changes on version
		<p>competitors) of the DT_RT_RESULT message (this includes ranked, none-ranked and IRM athletes).</p> <p>(after pre-integration cycle-2):</p> <ul style="list-style-type: none"> <li>DT_CONFIG: Same comments applied on Olympic.</li> </ul>
R3 v3.3	SFA	<ul style="list-style-type: none"> <li>DT_RESULT / DT_RT_RESULT: Same comments applied on Olympic (the attributes StartDate and EndDate set to Optional, UnitDateTime element no needed in RT, and sorting by UnitActions removed from section "Message Sort").</li> </ul>
R3 v3.4	APP	<p>(after pre-integration cycle-3) - defect 87030:</p> <ul style="list-style-type: none"> <li>DT_START_LIST (for the second run in SC event): Same comments applied on Olympic (updated the attribute StartOrder to be optional).</li> </ul>
R3 v4.0	SFR	<p>(CR472) – new "Para Snowboard Cross" event (PSBX):</p> <ul style="list-style-type: none"> <li>Codes: Added the CC @QualificationMark entity codes, and updated CC @ForerunnerBib codes.</li> <li>Applicable messages: Updated to use/redefine messages of Phase Results (PiT and RT)</li> <li>DT_START_LIST: Added the AS_FEATURES code and updated the values of the AS_FORERUNNER code (from UnitInfos /UnitInfo element). Also updated the values of the function attribute (from Officials /Official element).</li> <li>DT_RESULT/ DT_RT_RESULT: Only the AS_CURRENT, AS_NEXT and AS_LAST_FINISHED codes (from ExtendedResults/ExtendedResult element) are used in RT message, so this element in PiT message is not used.</li> <li>Added messages DT_PHASE_RESULT / DT_RT_PHASE_RESULT</li> <li>No used the DT_CUMULATIVE_RESULT / DT_RT_CUMULATIVE_RESULT messages.</li> <li>DT_CONFIG: Added the EC_QUALIFICATION_RULE /QR_RANK_QUALIFY_NEXT_ROUND code, and only the codes of AS_ALTITUDE_FINISH, AS_VERTICAL_DROP and AS_FIS_CODEX_NO are needed (from Configs /Config /ExtendedConfig element).</li> </ul>
R3 v4.1	SFA	<ul style="list-style-type: none"> <li>DT_PARTIC_UPDATE: Updated the value of the E_PERCENTAGE code (from Participant /Discipline /RegisteredEvent /EventEntry element), and it should not be send for PSBX events.</li> </ul>
R3 v4.1	APP	<ul style="list-style-type: none"> <li>Approved version</li> </ul>
R3 v4.2	APP	<ul style="list-style-type: none"> <li>(CR666): Added Venue attribute as mandatory for DT_PARTIC / DT_PARTIC_UPDATE message.</li> <li>(CR906): Removed ODF Light elements from DT_START_LIST, DT_PHASE_RESULT and DT_CUMULATIVE_RESULT messages.</li> <li>(CR974): DT_WEATHER: Updated the value of the temperature (to include positive temperature, without '+' symbol).</li> </ul>
R3 v4.3	APP	<ul style="list-style-type: none"> <li>(CR1297): Removed the entry code E_SUBSTITUTE from DT_PARTIC / DT_PARTIC_UPDATE messages.</li> </ul>
R3 v4.4	APP	<ul style="list-style-type: none"> <li>(CR1682-related to def.#98066): DT_CONFIG: Updated the value of the AS_GRADIENT_MIN code to include a negative value.</li> </ul>
R3 v5.0	APP	<p>(CR1614) - Jury composition and PSBX competition format changed:</p> <ul style="list-style-type: none"> <li>DT_START_LIST: Updated the Function attribute (at the element Officials/Official) to update the officials' functions for the PSBX event and to include those for the other events. (also related to def.#99721)</li> </ul>



## Change Log

Version	Status	Changes on version
		<ul style="list-style-type: none"><li>• DT_PHASE_RESULT / DT_RT_PHASE_RESULT: Removed the references to Qualification and Final phases in the PiT message description. The Rank and Result attributes have been updated to be empties for Run 1, and the attribute QualificationMark has been removed (from Result element). Updated the code AS_DIFF (it will be the difference to the result time for the Run 1), and removed the code AS_LAST_QUALIFIED (from the element /Athlete /ExtendedResults /ExtendedResult).</li><li>• DT_CONFIG: Removed the code EC_QUALIFICATION_RULE /QR_RANK_QUALIFY_NEXT_ROUND (added for PSBX event) (from the Configs /Config /ExtendedConfig element).</li><li>• Codes: Removed the CC @QualificationMark entity codes.</li><li>• DT_RANKING: The element EventInfos/EventInfo is not used for PSBX event.</li></ul>
R3 v5.1	APP	(CR2515-related to def.#101379): <ul style="list-style-type: none"><li>• DT_CUMULATIVE_RESULT / DT_RT_CUMULATIVE_RESULT: Updated the DocumentSubtype attribute for the SC event, to be sent at event unit level (instead of at phase level, like for the other events), in order to identify which run refers to.</li></ul>



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