



Description of the FIS Data Exchange XML Protocol Cross Country

Document

Cross-Country Result XML Description

Version

3.10

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1. General

This document provides the definition of the XML protocol used for the FIS Data Exchange for start lists, intermediate results and results.

Encoding of the XML result file should be in UTF8. A DTD definition must not be used.

If optional elements are used (not empty) they should at least contain the required child elements. Foreign XML elements can be used and will be ignored from the FIS system.

Language for the content is English and characters for data content should be only Latin letters.

Please note that the examples in this document do not need to be correct in terms of data but should only show the XML structure. The structure of the XML file and its content will be processed and verified by FIS and a confirmation email will be sent out to the sender of the file containing the result of processing.

1.1 XML result transmission

Results XML files must be sent by email to results@fis-ski.com.

The subject of the email should contain for easy email identification the NSA code and race codex.

Example email subject: AUT1234

File name of the xml files: <NSA code><race codex (4 digits)>.xml

Example XML file name: AUT1234.xml

Result XML files can be sent as one file or also more than one file within one email. Files can be also sent packed as ZIP file. The ZIP file must only contain the XML result file(s) but no folders or hidden system files and must not be password protected.

1.2 Support

For support requests, questions and feedbacks please contact the FIS IT department: it@fis-ski.com. A support request for a certain race should at least contain the FIS race codex and a short description of the issue. Preferred support language is English.

2. Structure of XML

2.1 <Fisresults>

The general term for the results of all FIS competitions, root element

Element	Data	Child elements	Description	Required
<XMLversion>	string		Version number of this XML description document (see above) which the software supports	optional
<Raceheader>		<Season> <Codex> <Nation> <Discipline> <Category> <Type> <Phase> <Eventname> <Place> <Racedate> <Tempunit> <Longunit> <Speedunit> <Windunit> <CC_photof>	Information to define each event. The following information is applicable to all FIS disciplines. Each discipline has a specific race header with further technical data.	required
<CC_race>		<CC_raceinfo> <CC_classified> <CC_notclassified>	Information about the race and results	required

Attributes of <Raceheader> :

Element	Attribute	Attribute values
<Raceheader>	Sector	CC
<Raceheader>	Gender	M = Men W = Women A = Mixed

2.2 <Raceheader>

Element	Data	Child elements	Description	Required
<Season>	integer		Season, ie. 2012 for June 2011 - May 2012	required
<Codex>	Integer		The unique identification number for each competition with the discipline (latest details can be found in the calendar section of the FIS website)	required
<Nation>	string		The three letter FIS code for the organizing nation (latest details can be found in the calendar section of the FIS website)	required
<Discipline>	string		The respective discipline to the sector INT – Interval Start MAS – Mass Start PUR – Pursuit SPQ – Sprint Qualification SPF – Sprint Final SKT – Skiathlon HMS – Heat Mass Start TE – Team TSPQ – Team Sprint Qualification TSP – Team Sprint MAR – Marathon ML – Popular Race DPU – Double Pursuit	required
<Category>	string		The FIS abbreviation for the category of competition specific to the discipline (see appendix) According category provided in FIS calendar	required
<Type>	string		Type of content Startlist – Startlist Partial – Partial unofficial result Unofficial – Unofficial result Official – Official result	required
<Phase>	string		Phase of the competition which the content is sent for final smallfinal semifinal quarterfinal eightfinal qualification	optional

Element	Data	Child elements	Description	Required
			Used for competitions held in heats (Sprint Final, Team Sprint Final)	
<Eventname>	string		Name of event as published in FIS calendar	optional
<Place>	string		Resort, town, etc. of competition venue	optional
<Racedate>		<Day> <Month> <Year>	Date of race	optional
<Tempunit>	string		Unit of the temperature C = Celsius F = Fahrenheit K = Kelvin	optional
<Longunit>	string		Unit of length Remark: i.e. if 'm' is long unit intermediate points in 'km' need to be send as 'm' m = Meter km = Kilometer mi = Miles in = Inch y = Yard	optional
<Speedunit>	string		Unit of speed of an athlete attempt kmh = Kilometer/Hour mph = Miles/Hour ms = Meter/Second	optional
<Windunit>	string		Unit wind speed ms = Meter/Second kmh = Kilometer/Hour mph = Miles/Hour kn = Knots bft = Beaufort	optional
<CC_photof>			Cross Country race contains photo finish ranks will not be recalculated on FIS side empty	optional

Attributes of <Type> :

Element	Attribute	Attribute values
<Type>	Run (optional)	Number of the run which the content is sent for Only to be sent if a phase is run more than once

2.2.1 <Racedate>

Element	Data	Description	Required
<Day>	integer	Day in numerical form: 1, 11, 21, etc.	required
<Month>	integer	Month in numerical form: 1, 2, 10, etc.	required
<Year>	integer	Year in four digits numerical form: 2000, 2001, 2002, etc.	required

2.3 <CC_race>

Element	Child elements	Description	Required
<CC_raceinfo>	<Jury> <Runinfo> <Usedfislist> <Appliedpenalty> <Calculatedpenalty> <Fvalue> <Timingby> <Dataprocessingby> <Softwarecompany> <Softwarename> <Softwareversion>	Specific technical data about each race	required
<CC_classified>	<CC_ranked>	All competitors who are classified in the competition	required
<CC_notclassified>	<CC_notranked>	All competitors who are not classified in the competition	required

2.3.1 <CC_raceinfo>

Element	Data	Child elements	Description	Required
<Jury>		<Lastname> <Firstname> <Nation>	Details about the competition jury	required
<Runinfo>		<Course> <Starttime> <Endtime> <Weather> <Statistics>	Information about the run	required
<Usedfislist>	integer		FIS list number which is used for the preparation of the start list and the for calculation of FIS point penalty based on the results	optional
<Appliedpenalty>	decimal		Penalty of race which is applied. This may differ from the calculated penalty in case the calculated penalty is lower than the minimum allowed for the category of competition or above the maximum for the category of competition	optional
<Calculatedpenalty>	decimal		Penalty of race which is calculated	optional
<Fvalue>	integer		Valid F value for the discipline according the current FIS point rules	optional
<Timingby>	string		Timing or Scoring by company	optional
<Dataprocessingby>	string		Data processing by company	optional
<Softwarecompany>	string		Name of software company	optional
<Softwarename>	string		Name of timing/scoring software	optional
<Softwareversion>	string		Version of the timing/scoring software	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Jury>	Function	For all competition required: CHIEFCOMPETITION TECHNICALDELEGATE For categories WC, OWG, WSC: RACEDIRECTOR RACEDIRECTORASSISTANT CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT TECHNICALDELEGATEASSISTANTNATIONAL MEMBER For categories WJC: CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT TECHNICALDELEGATEASSISTANTNATIONAL For categories YOG, COC, FIS CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT For category UVS: RACEDIRECTOR CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT TECHNICALDELEGATEASSISTANTNATIONAL
<Runinfo>	No (optional)	Run number

2.3.2 <Jury>

Element	Data	Description	Required
<Lastname>	string	Last name jury member	required
<Firstname>	string	First name jury member	required
<Nation>	string	Nation (FIS abbreviation) of jury member	required

2.3.3 <Runinfo>

Element	Child elements	Description	Required
<Course>	<Name> <HD> <MC> <TC> <Style> <Laplength> <Lapnumber> <Intermediate>		optional
<Starttime>		Start time of the run Time in 24h, HH:MM	required
<Endtime>		End time of the run Time in 24h, HH:MM	optional, required for OWG, WSC, WC
<Weather>	<Starttime> <Endtime> <Place> <Weather> <Temperatureair> <Temperaturesnow> <Humidity> <Maxwindspeed> <Minwindspeed> <Avgwindspeed> <Winddirection>	Information about weather	optional
<Statistics>	<Entries> <Ranked> <DSQ> <DQB> <DNS> <DNF> <NPS> <LAP>		optional

Attributes of <Course> :

Element	Attribute	Attribute values
<Course>	No	Course number

2.3.4 <Course>

Element	Data	Child elements	Description	Required
<Name>	string		Name of the course/lap	optional
<HD>	integer		Height difference of the course	optional
<MC>	integer		Maximum climb of the course	optional
<TC>	integer		Total climb of the course	optional
<Style>	string		Skiing technique C - Classic F - Free M - Mixed	optional
<Laplength>	integer		Length of lap	optional
<Lapnumber>	integer		Number of laps	optional
<Intermediate>		<Distance>	Information about intermediate timing points with order and type	optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Order number of intermediate point, counts up over all courses 1-98 = intermediate points 99 = Finish
<Intermediate>	type	time speed

2.3.5 <Intermediate>

Element	Data	Description	Required
<Distance>	string	Distance in long unit or name of intermediate point i	optional

2.3.6 <Weather>

Element	Data	Description	Required
<Starttime>	string	Start time of the round	required
<Endtime>	string	End time of the round	optional
<Place>	string	Place of weather evaluation	required
<Weather>	string	Description of weather conditions	required
<Snow>	string	Description of snow conditions	optional
<Temperatureair>	decimal	Air Temperature	required
<Temperaturesnow>	decimal	Snow Temperature	optional
<Humidity>	integer	Air humidity	optional
<Maxwindspeed>	decimal	Max. wind speed	optional
<Minwindspeed>	decimal	Min. wind speed	optional
<Avgwindspeed>	decimal	Avg. wind speed	optional
<Winddirection>	string	Wind direction N – north NNW – north north west NW – north west WNW – west north west W – west WSW – west south west SW – south west SSW – south south west S – south SSE – south south east SE – south east ESE – east south east E – east ENE – east north east NE – north east NNE – north north east	optional

2.3.7 <Statistics>

Element	Child elements	Description	Required
<Entries>	<Competitors> <Nations>	Numbers of competitors and nation entered to competition in a run	optional
<Ranked>	<Competitors> <Nations>	Numbers of competitors and nation with results in a run	optional
<DSQ>	<Competitors> <Nations>	Numbers of competitors and nation disqualified in a run	optional
<DNS>	<Competitors> <Nations>	Numbers of competitors and nation did not start in a run	optional
<DNF>	<Competitors> <Nations>	Numbers of competitors and nation did not finish in a run	optional
<DQB>	<Competitors> <Nations>	Numbers of competitors and nation disqualified in a run	optional
<NPS>	<Competitors> <Nations>	Numbers of competitors and nation not permitted to in a run	optional
<LAP>	<Competitors> <Nations>	Numbers of competitors and nation lapped in a run	optional

2.3.8 <Entries> , <Ranked> , <DSQ> , <DQB> , <DNS> , <DNF> , <NPS> , <LAP>

Element	Data	Description	Required
<Competitors>	integer	Numbers of competitors on start list in a round	optional
<Nations>	integer	Numbers of nation on start list in a round	optional

3. Result for individual competition

3.1 <CC_classified>

Element	Child elements	Description	Required
<CC_ranked>	<Rank> <Order> <Bib> <Competitor> <CC_result> <CC_resultdetail>	Details of each competitor's results	required

Attributes of <CC_ranked> :

Element	Attribute	Attribute values
<CC_ranked>	Status	QLF = completed the race
<CC_ranked>	Status2	LAP = lapped RAL = Ranked as last

3.2 <CC_ranked>

Element	Data	Child elements	Description	Required
<Rank>	integer		The competitor's position in the race (If the rank was decided by a photo finish then with attribute)	required
<Order>	integer		The competitor's order position in the startlist	required
<Bib>	integer		The competitor's starting bib from the first run	required
<Competitor>		<Fiscode> <Lastname> <Firstname> <Gender> <Nation> <Yearofbirth> <Clubname>	Details of a competitor	required
<CC_result>		<Starttime> <Startdiff> <Totaltime> <Arrivalrank> <Arrivaltime> <Arrivaldiff> <Diff> <Racepoints> <Bonustime> <Bonuscuppoints> <Penaltytime> <Level>	Details of the result of the competitor	required
<CC_resultdetail>		<Intermediate> <Heat> <Run> (⚠ depre- cated)	Details of race result	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Rank>	Pf	y
<Bib>	Color	yellow red green blue white black turquoise grey (color of a leader shirt)

3.3 <Competitor>

Element	Data	Description	Required
<Fiscode>	string	The competitor's personal and unique FIS code. Every competitor must have a valid FIS code to participate in a FIS race. This code is published on the FIS list, or in exceptional cases between the publication of lists may have been provided to the TD or organizer by the FIS Office in writing.	required
<Lastname>	string	The competitor's last name as it appears on the FIS list	required
<Firstname>	string	The competitor's first name as it appears on the FIS list	required
<Gender>	string	Gender of competitor M = Male F = Female	optional
<Nation>	string	The competitor's nation using the FIS abbreviation	required
<Yearofbirth>	integer	The competitor's year of birth as it appears on the FIS list (i.e. 1987)	optional
<Clubname>	String	Name of club of competitor	optional

3.4 <CC_result>

Element	Data	Description	Required
<Starttime>	string	Start time of competitor (individual races) HH:MM:SS	optional
<Timediff>	string	Start behind time (pursuit), attribute wave time MM:SS	optional
<Totaltime>	string	Total time of race, attribute time limit for stage events/ net time for pursuit races within stage events for FIS point calculation (according FIS Points Rule art. 2.4) HH:MM:SS.Z(Z)	required
<Diff>	string	Time difference for total time on finish	optional
<Racepoints>	decimal	Race (FIS) points	required
<Bonustime>	string	Bonus time on finish (stage event races) in time format HH:MM:SS.Z(Z)	optional
<Bonuscuppoints>	decimal	Bonus cup points on finish	optional
<Penaltytime>	string	Penalty time of a sanction in time format HH:MM:SS.Z(Z)	optional
<Arrivalrank>	string	Rank for arrival time	optional
<Arrivaltime>	string	Arrival time (= total time) only for pursuit races within stage events HH:MM:SS.Z(Z)	optional
<Arrivaldiff>	string	Arrival time difference on finish	optional
<Level>	string	Round reached (Final, Small final, 1/4 final, Semifinal, Quarter final, Eight final, qualification) final smallfinal semifinal quarterfinal eightfinal qualification	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Timediff>	wave	y
<Totaltime>	TL	y

3.5 <CC_resultdetail>

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank> <Sectortime> <Sectordiff> <Sectorrank> <Bonustime> <Bonuscuppoints> <Speed>	detailed result information	optional
<Heat> (Sprint)	<Rank> <Time> <Diff>	detailed result information about sprint heats	optional
<Run> (Sprint)	<Rank> <Time> <Diff>	 Deprecated – replaced by <Heat> , kept for compatibility with earlier versions of this description	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point
<Heat> (Sprint)	No	Number of the heat within the phase given in Level
<Heat> (Sprint)	Level	final smallfinal semifinal quarterfinal eightfinal qualification
<Heat> (Sprint)	Status	RAL DNS DNF DSQ NPS
<Run> (Sprint)	no Level Status	 Deprecated – attributes of the deprecated <Run> element, replaced by No , Level and Status of <Heat>

3.6 <Intermediate>

An intermediate point can be a timing point or speed measurement point.

Element	Data	Description	Required
<Time>	string	Cumulative time on intermediate point i	required
<Diff>	string	Time difference on intermediate point i	optional
<Rank>	integer	Rank on intermediate point i	required
<Sectortime>	string	Time of the last sector (last intermediate point to current intermediate point)	optional
<Sectordiff>	String	Time difference of a sector	optional
<Sectorrank>	integer	Rank of the last sector	optional
<Bonustime>	string	Bonus time on intermediate point (stage event races)	optional
<Bonuspoints>	decimal	Bonus cup points on intermediate point	optional
<Speed>	string	Speed on intermediate point i in speed unit (Speed can be also used without using Time, Diff and Rank on an intermediate point)	optional

Element	Data	Description	Required
<Speed>	decimal	Speed on intermediate point i	required
<Diff>	decimal	Speed difference on intermediate point i	optional
<Rank>	integer	Rank on intermediate point i	required

3.7 <Heat>

⚠ The deprecated <Run> element accepts the same child elements and attributes as <Heat> .

Element	Data	Description	Required
<Rank>	Integer	Rank within the run (If the rank was decided by a photo finish then with attribute)	optional
<Time>	string	Time of the run (if the time of the competitor is a lucky loser time then with attribute) Time	optional
<Diff>	string	Time difference in run	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Rank>	Pf	y
<Time>	LLrank	Rank of lucky loser time

3.8 <CC_notclassified>

Element	Child elements	Description	Required
<CC_notranked>	<Bib> <Competitor> <Reason>	Details of each competitor's results	optional

Attributes of <CC_notranked> :

Element	Attribute	Attribute values
<CC_notranked>	Status	DNS = Did not start DSQ = Disqualified DNF = Did not finish DPO = Doping offense NPS = Not permitted to start DQB = Disqualification for unsportsmanlike behavior

3.9 <CC_notranked>

Element	Data	Child elements	Description	Required
<Bib>	integer		The competitor's starting bib from the first run	required
<Competitor>		<Fiscode> <Lastname> <Firstname> <Gender> <Nation> <Yearofbirth> <Clubname>	Details of a competitor	required
<CC_resultdetail>		<Intermediate> <Heat> <Run> (⚠ deprecated)	Details of race result	optional
<Reason>	string		Reference to ICR rule number for disqualification offence	optional
<CC_result>		<Level>	Details of the result of the competitor	required
<Level>	string		Round reached (Final, Small final, 1/4 final, Semifinal, Quarter Final, Eight Final, qualification) final smallfinal semifinal quarterfinal eightfinal qualification	optional

Attributes of <Bib> :

Element	Attribute	Attribute values
<Bib>	Color	yellow red green blue white black turquoise grey (color of a leader shirt)

3.10 <Competitor>

Element	Data	Description	Required
<Fiscode>	string	The competitor's personal and unique FIS code. Every competitor must have a valid FIS code to participate in a FIS race. This code is published on the FIS list, or in exceptional cases between the publication of lists may have been provided to the TD or organizer by the FIS Office in writing.	required
<Lastname>	string	The competitor's last name as it appears on the FIS list	required
<Firstname>	string	The competitor's first name as it appears on the FIS list	required
<Gender>	string	Gender of competitor M = Men F = Female	optional
<Nation>	string	The competitor's nation using the FIS abbreviation	required
<Yearofbirth>	integer	The competitor's year of birth as it appears on the FIS list (i.e. 1987)	optional
<Clubname>	String	Name of club of competitor	optional

3.11 <CC_result>

Element	Data	Description	Required
<Level>	string	Round reached (Final, Small final, 1/4 final, Semifinal, Quarter Final, Eight Final, qualification) final smallfinal semifinal quarterfinal eightfinal qualification	optional

3.12 <CC_resultdetail>

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank> <Sectortime> <Sectordiff> <Sectorrank> <Bonustime> <Bonuspoints> <Speed>	detailed result information for all races except sprint	optional
<Heat>	<Rank> <Time> <Diff>	detailed result information about sprint heats	optional
<Run>	<Rank> <Time> <Diff>	 Deprecated – replaced by <Heat> , kept for compatibility with earlier versions of this description	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point
<Heat>	No	Number of the heat within the phase given in Level
<Heat>	Level	final smallfinal semifinal quarterfinal eightfinal qualification
<Heat>	Status	DSQ DNS DNF NPS RAL
<Run>	no Level Status	 Deprecated – attributes of the deprecated <Run> element, replaced by No , Level and Status of <Heat>

3.13 <Intermediate>

An intermediate point can be a timing point or speed measurement point.

Element	Data	Description	Required
<Time>	string	Cumulative time on intermediate point i	required
<Diff>	string	Time difference on intermediate point i	optional
<Rank>	integer	Rank on intermediate point i	required
<Sectortime>	string	Time of the last sector (last intermediate point to current intermediate point)	optional
<Sectordiff>	String	Time difference of a sector	optional
<Sectorrank>	integer	Rank of the last sector	optional
<Bonustime>	string	Bonus time on intermediate point (stage event races)	optional
<Bonuspoints>	decimal	Bonus cup points on intermediate point	optional
<Speed>	string	Speed on intermediate point i in speed unit (Speed can be also used without using Time, Diff and Rank on an intermediate point)	optional

Element	Data	Description	Required
<Speed>	decimal	Speed on intermediate point i	required
<Diff>	decimal	Speed difference on intermediate point i	optional
<Rank>	integer	Rank on intermediate point i	required

3.14 <Heat>

⚠ The deprecated <Run> element accepts the same child elements and attributes as <Heat> .

Element	Data	Description	Required
<Rank>	Integer	Rank within the run (If the rank was decided by a photo finish then with attribute)	optional
<Time>	string	Time of the run (if the time of the competitor is a lucky loser time then with attribute) Time	optional
<Diff>	string	Time difference in run	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Rank>	Pf	y
<Time>	LLrank	Rank of lucky loser time

4. Result for team competition

4.1 <CC_classified>

Element	Child elements	Description	Required
<CC_ranked>	<Rank> <Order> <Bib> <Team> <CC_result> <CC_resultdetail> <CC_team>	Details of each team results	required

Attributes of <CC_ranked> :

Element	Attribute	Attribute values
<CC_ranked>	Status	QLF = completed the race
<CC_ranked>	Status2	LAP = lapped RAL = Ranked as last (Team Sprint)

4.2 <CC_ranked>

Element	Data	Child elements	Description	Required
<Rank>	integer		The team position in the race (If the rank was decided by a photo finish then with attribute)	required
<Order>	integer		The competitor's order position in the start list	required
<Bib>	integer		The team starting bib from the first run color = team BIB color	required
<Team>		<Fiscode> <Teamname> <Nation>	Details of a team	required
<CC_result>		<Totaltime> <Diff> <Penaltytime> <Level>	Details of the result of the team	required
<CC_resultdetail>		<Intermediate> (Relay) <Heat> (Team Sprint) <Run> (Team Sprint) (⚠ deprecated)	Details of race result	optional
<CC_team>		<CC_ranked>	Detailed result of each competitor of a team	optional

Attributes of the elements above:

Element	Attribute	Attribute values
<Rank>	Pf	y
<Bib>	Color	yellow red green blue white black turquoise grey

4.3 <Team>

Element	Data	Description	Required
<Fiscode>	string	The team's unique FIS code. Every team must have a valid FIS code to participate in a FIS race. This code is published on the FIS list, or in exceptional cases between the publications of lists may have been provided to the TD or Organizers by the FIS Office in writing.	required
<Teamname>	string	The team name as it appears on the FIS list	required
<Nation>	string	The team nation using the FIS abbreviation	required

4.4 <CC_result>

Element	Data	Description	Required
<Totaltime>	string	Total time of race	required
<Diff>	string	Time difference on finish	optional
<Penaltytime>	string	Penalty time	optional
<Level>	string	Round reached in Team Sprint (Final, Semifinal) final smallfinal semifinal	optional

4.5 <CC_resultdetail> (Relay)

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank> <Sectortime> <Sectordiff> <Sectorrank>	i.e. intermediate times for each exchange/leg	optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point

4.6 <Intermediate>

An intermediate point can be for team only a timing point.

Element	Data	Description	Required
<Time>	string	Time on intermediate point i	required
<Diff>	string	Time difference on intermediate point i	optional
<Rank>	integer	Rank on intermediate point i	required
<Sectortime>	string	Time of the last sector (last intermediate point to current intermediate point)	optional
<Sectordiff>	string	Time difference of a sector	optional
<Sectorrank>	integer	Rank of the last sector	optional

4.7 <CC_resultdetail> (Team Sprint)

Element	Child elements	Description	Required
<Heat>	<Rank> <Time> <Diff>	result information about team sprint heats	optional
<Run>	<Rank> <Time> <Diff>	⚠ Deprecated – replaced by <Heat> , kept for compatibility with earlier versions of this description	optional

Attributes of <Heat> :

Element	Attribute	Attribute values
<Heat>	No	Number of the heat within the phase given in Level
<Heat>	Level	final smallfinal semifinal
<Run>	no Level	⚠ Deprecated – attributes of the deprecated <Run> element, replaced by No and Level of <Heat>

4.8 <Heat>

⚠ The deprecated <Run> element accepts the same child elements and attributes as <Heat> .

Element	Data	Description	Required
<Time>	string	Total time of the heat	required
<Diff>	string	Total time difference	optional
<Rank>	integer	Total team rank of the heat	required

4.9 <CC_team>

Element	Child elements	Description	Required
<CC_ranked>	<Bib> <Competitor> <CC_resultdetail>	Details of team and each competitor's results	required

Attributes of <CC_ranked> :

Element	Attribute	Attribute values
<CC_ranked>	Status	QLF = completed the race
<CC_ranked>	Status2	LAP = lapped RAL = Ranked as last

4.10 <CC_ranked>

Element	Data	Child elements	Description	Required
<Bib>	integer		The team starting bib	required
<Competitor>		<Fiscode> <Lastname> <Firstname> <Gender> <Nation> <Yearofbirth> <Clubname>	Details of a competitor	required
<CC_resultdetail>		<Totaltime> <Diff> <Rank> <Intermediate>	Details of the result of the competitor	optional

Attributes of `<Bib>` :

Element	Attribute	Attribute values
<code><Bib></code>	<code>Color</code>	red green yellow blue
<code><Bib></code>	<code>Style</code> (only relay)	C=classic technique F=free technique
<code><Bib></code>	<code>Leg</code> (only relay)	Number of leg

4.11 `<Competitor>`

Element	Data	Description	Required
<code><Fiscode></code>	string	The competitor's personal and unique FIS code. Every competitor must have a valid FIS code to participate in a FIS race. This code is published on the FIS list, or in exceptional cases between the publications of lists may have been provided to the TD or organizers by the FIS Office in writing.	required
<code><Lastname></code>	string	The competitor's last name as it appears on the FIS list	required
<code><Firstname></code>	string	The competitor's first name as it appears on the FIS list	required
<code><Gender></code>	string	Gender of competitor M = Male F = Female	optional
<code><Nation></code>	string	The competitor's nation using the FIS abbreviation	required
<code><Yearofbirth></code>	integer	The competitor's year of birth as it appears on the FIS list (ie. 1987)	optional
<code><Clubname></code>	String	Name of club of competitor	optional

4.12 <CC_resultdetail> (Relay)

Element	Data	Child elements	Description	Required
<Totaltime>	string		Leg time of the competitor	optional
<Diff>	string		Leg time difference	optional
<Rank>	integer		Rank according the leg time	optional
<Intermediate>		<Time> <Diff> <Rank> <Speed>		optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point

4.13 <Intermediate>

An intermediate point can be a timing point or speed measurement point.

Element	Data	Description	Required
<Time>	string	Time of the leg on intermediate point i	required
<Diff>	string	Time difference of the leg on intermediate point i	optional
<Rank>	integer	Rank of the leg on intermediate point i	required

Element	Data	Description	Required
<Speed>	decimal	Speed on intermediate point i in speed unit	required
<Diff>	decimal	Speed difference on intermediate point i	optional
<Rank>	integer	Speed rank on intermediate point i	required

4.14 <CC_resultdetail> (Team Sprint)

Element	Child elements	Description	Required
<Heat>	<Intermediate>	result information about team sprint heats intermediate	optional
<Run>	<Intermediate>	⚠ Deprecated – replaced by <Heat> , kept for compatibility with earlier versions of this description	optional

Attributes of <Heat> :

Element	Attribute	Attribute values
<Heat>	No	Number of the heat within the phase given in Level
<Heat>	Level	final smallfinal semifinal
<Run>	no Level	⚠ Deprecated – attributes of the deprecated <Run> element, replaced by No and Level of <Heat>

4.15 <Heat>

⚠ The deprecated <Run> element accepts the same child elements and attributes as <Heat> .

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank> <Speed>	i.e. intermediate times for each exchange/leg	optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point

4.16 <Intermediate>

An intermediate point can be a timing point or speed measurement point.

Element	Data	Description	Required
<Time>	string	Time of the leg on intermediate point i	required
<Diff>	string	Time difference of the leg on intermediate point i	optional
<Rank>	integer	Rank of the leg on intermediate point i	required

Element	Data	Description	Required
<Speed>	decimal	Speed on intermediate point i in speed unit	required
<Diff>	decimal	Speed difference on intermediate point i	optional
<Rank>	integer	Speed rank on intermediate point i	required

4.17 <CC_notclassified>

Element	Child elements	Description	Required
<CC_notranked>	<Bib> <Team> <CC_team> <CC_resultdetail> <Reason> <Level>	Details of each team result	optional

Attributes of <CC_notranked> :

Element	Attribute	Attribute values
<CC_notranked>	Status	DNS = Did not start DSQ = Disqualified DNF = Did not finish DPO = Doping offense NPS = Not permitted to start DQB = Disqualification for unsportsmanlike behavior

4.18 <CC_notranked>

Element	Data	Child elements	Description	Required
<Bib>	integer		The team starting bib from the first run	required
<Team>		<Fiscode> <Teamname> <Nation>	Details of a team	required
<CC_result>		<Level>	Details of the result of the team	required
<CC_resultdetail>		<Intermediate> <Heat> <Run> (⚠ depre- cated)	Details of the result of the competitor	optional
<CC_team>		<CC_notranked>		optional
<Reason>	string		Reference to ICR rule number for disqualification offence	Optional
<Level>	string		Round reached in Team Sprint (Final, Small final, Semifinal) final smallfinal semifinal	optional

4.19 <Team>

Element	Data	Description	Required
<Fiscode>	string	The team's unique FIS code. Every team must have a valid FIS code to participate in a FIS race. This code is published on the FIS list, or in exceptional cases between the publication of lists may have been provided to the TD or Organizers by the FIS Office in writing.	required
<Teamname>	string	The team name as it appears on the FIS list	required
<Nation>	string	The team nation using the FIS abbreviation	required

4.20 <CC_result>

Element	Data	Description	Required
<Level>	string	Round reached in Team Sprint (Final, Small final, Semifinal) final smallfinal semifinal	optional

4.21 <CC_resultdetail> (Relay)

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank> <Sectortime> <Sectordiff> <Sectorrank>	i.e. intermediate times for each exchange/leg	optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point

4.22 <Intermediate>

An intermediate point can be for team only a timing point.

Element	Data	Description	Required
<Time>	string	Time on intermediate point i	required
<Diff>	string	Time difference on intermediate point i	optional
<Rank>	integer	Rank on intermediate point i	required
<Sectortime>	string	Time of the last sector (last intermediate point to current intermediate point)	optional
<Sectordiff>	string	Time difference of a sector	optional
<Sectorrank>	integer	Rank of the last sector	optional

4.23 <CC_resultdetail> (Team Sprint)

Element	Child elements	Description	Required
<Heat>	<Rank> <Time> <Diff>	result information about team sprint heats	optional
<Run>	<Rank> <Time> <Diff>	⚠ Deprecated – replaced by <Heat> , kept for compatibility with earlier versions of this description	optional

Attributes of <Heat> :

Element	Attribute	Attribute values
<Heat>	No	Number of the heat within the phase given in Level
<Heat>	Level	final semifinal
<Run>	no Level	⚠ Deprecated – attributes of the deprecated <Run> element, replaced by No and Level of <Heat>

4.24 <Heat>

⚠ The deprecated <Run> element accepts the same child elements and attributes as <Heat> .

Element	Data	Description	Required
<Time>	string	Total time of the heat	required
<Diff>	string	Total time difference	optional
<Rank>	integer	Total team rank of the heat	required

4.25 <CC_team>

Element	Child elements	Description	Required
<CC_notranked>	<Bib> <Competitor> <CC_resultdetail>	Details of team and each competitor's results	Required

Attributes of <CC_notranked> :

Element	Attribute	Attribute values
<CC_notranked>	Status	DNS = Did not start DSQ = Disqualified DNF = Did not finish DPO = Doping offense NPS = Not permitted to start DQB = Disqualification for unsportsmanlike behavior

4.26 <CC_notranked>

Element	Data	Child elements	Description	Required
<Bib>	integer		The team starting bib	required
<Competitor>		<Fiscode> <Lastname> <Firstname> <Gender> <Nation> <Yearofbirth> <Clubname>	Details of a competitor	required
<CC_resultdetail>		<Totaltime> <Diff> <Rank> <Intermediate>	Details of the result of the competitor as far as team participated in the competition (for DNF)	optional

4.27 <Competitor>

Element	Data	Description	Required
<Fiscode>	string	The competitor's personal and unique FIS code. Every competitor must have a valid FIS code to participate in a FIS race. This code is published on the FIS list, or in exceptional cases between the publications of lists may have been provided to the TD or organizers by the FIS Office in writing.	required
<Lastname>	string	The competitor's last name as it appears on the FIS list	required
<Firstname>	string	The competitor's first name as it appears on the FIS list	required
<Gender>	string	Gender of competitor M = Male F = Female	optional
<Nation>	string	The competitor's nation using the FIS abbreviation	required
<Yearofbirth>	integer	The competitor's year of birth as it appears on the FIS list (ie. 1987)	optional
<Clubname>	String	Name of club of competitor	optional

4.28 <CC_resultdetail> (Relay)

Element	Data	Child elements	Description	Required
<Totaltime>	string		Leg time of the competitor	optional
<Diff>	string		Leg time difference	optional
<Rank>	integer		Rank according the leg time	optional
<Intermediate>		<Time> <Diff> <Rank> <Speed>		optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point

4.29 <Intermediate>

An intermediate point can be a timing point or speed measurement point.

Element	Data	Description	Required
<Time>	string	Time of the leg on intermediate point i	required
<Diff>	string	Time difference of the leg on intermediate point i	optional
<Rank>	integer	Rank of the leg on intermediate point i	required

Element	Data	Description	Required
<Speed>	decimal	Speed on intermediate point i in speed unit	required
<Diff>	decimal	Speed difference on intermediate point i	optional
<Rank>	integer	Rank on intermediate point i	required

4.30 <CC_resultdetail> (Team Sprint)

Element	Child elements	Description	Required
<Heat>	<Intermediate>	result information about team sprint heats intermediate	optional
<Run>	<Intermediate>	⚠ Deprecated – replaced by <Heat> , kept for compatibility with earlier versions of this description	optional

Attributes of <Heat> :

Element	Attribute	Attribute values
<Heat>	No	Number of the heat within the phase given in Level
<Heat>	Level	final semifinal
<Run>	no Level	⚠ Deprecated – attributes of the deprecated <Run> element, replaced by No and Level of <Heat>

4.31 <Heat>

⚠ The deprecated <Run> element accepts the same child elements and attributes as <Heat> .

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank>	i.e. intermediate times for each exchange/leg	optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Number of intermediate point

4.32 <Intermediate>

Element	Data	Description	Required
<Time>	string	Time of the leg on intermediate point i	required
<Diff>	string	Time difference of the leg on intermediate point i	optional
<Rank>	integer	Rank of the leg on intermediate point i	required

5. Example Raceheader, Raceinfo

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <XMLversion>2.9</XMLversion>
  <Raceheader Sector="CC" Gender="M">
    <Season>2011</Season>
    <Codex>9970</Codex>
    <Nation>FIN</Nation>
    <Discipline>INT</Discipline>
    <Category>WC</Category>
    <Type>Official</Type>
    <Racedate>
      <Day>19</Day>
      <Month>11</Month>
      <Year>2010</Year>
    </Racedate>
    <Place>Kuusamo</Place>
    <Eventname>Viessmann Cross Country World Cup</Eventname>
    <Tempunit>C</Tempunit>
    <Longunit>m</Longunit>
    <Speedunit>kmh</Speedunit>
    <Windunit>ms</Windunit>
    <CC_photof/>
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <Jury Function="RACEDIRECTOR">
        <Lastname>MIGNEREY</Lastname>
        <Firstname>Pierre</Firstname>
        <Nation>FIS</Nation>
      </Jury>
      <Jury Function="CHIEFCOMPETITION">
        <Lastname>PEKK</Lastname>
        <Firstname>Tiit</Firstname>
        <Nation>EST</Nation>
      </Jury>
      <Jury Function="TECHNICALDELEGATE">
        <Lastname>MAPELLI</Lastname>
```

```
<Firstname>Marco</Firstname>
<Nation>ITA</Nation>
</Jury>
<Jury Function="TECHNICALDELEGATEASSISTANT">
  <Lastname>VODRAZKA</Lastname>
  <Firstname>Jakub</Firstname>
  <Nation>CZE</Nation>
</Jury>
<Jury Function="TECHNICALDELEGATEASSISTANTNATIONAL">
  <Lastname>PRYKAERI</Lastname>
  <Firstname>Juessi</Firstname>
  <Nation>FIN</Nation>
</Jury>
<Jury Function="MEMBER">
  <Lastname>VILJANMAR</Lastname>
  <Firstname>Annmarie</Firstname>
  <Nation>FIN</Nation>
</Jury>
<Runinfo No="1">
  <Course No="1">
    <Name>Kilparata race course</Name>
    <HD>45</HD>
    <MC>75</MC>
    <TC>265</TC>
    <Style>F</Style>
    <Laplength>2500</Laplength>
    <Lapnumber>3</Lapnumber>
    <Style>Free</Style>
    <Intermediate i="1" type="time">
      <Distance>1500</Distance>
    </Intermediate>
    <Intermediate i="2" type="speed">
      <Distance>2600</Distance>
    </Intermediate>
    <Intermediate i="3" type="time">
      <Distance>5700</Distance>
    </Intermediate>
    <Intermediate i="99" type="time">
      <Distance>7500</Distance>
    </Intermediate>
  </Course>
</Runinfo>
```

```
<Starttime>15:00</Starttime>
<Endtime>16:00</Endtime>
<Weather>
  <Starttime>15:00</Starttime>
  <Endtime>16:00</Endtime>
  <Place>Stadium</Place>
  <Weather>cloudy</Weather>
  <Temperatureair>4.1</Temperatureair>
  <Temperaturesnow>-1.9</Temperaturesnow>
  <Humidity>80</Humidity>
  <Maxwindspeed>0.87</Maxwindspeed>
  <Minwindspeed>0.17</Minwindspeed>
  <Avgwindspeed>0.26</Avgwindspeed>
  <Winddirection>N</Winddirection>
</Weather>
<Statistics>
  <Entries>
    <Competitors>49</Competitors>
    <Nations>10</Nations>
  </Entries>
  <Ranked>
    <Competitors>45</Competitors>
    <Nations>10</Nations>
  </Ranked>
  <DSQ>
    <Competitors>1</Competitors>
    <Nations>1</Nations>
  </DSQ>
  <DQB>
    <Competitors>1</Competitors>
    <Nations>1</Nations>
  </DQB>
  <DNS>
    <Competitors>1</Competitors>
    <Nations>1</Nations>
  </DNS>
  <DNF>
    <Competitors>1</Competitors>
    <Nations>1</Nations>
  </DNF>
  <NPS>
```

```

        <Competitors>1</Competitors>
        <Nations>1</Nations>
    </NPS>
    <LAP>
        <Competitors>1</Competitors>
        <Nations>1</Nations>
    </LAP>
</Statistics>
</Runinfo>
<Usedfislist>2</Usedfislist>
<Appliedpenalty>0.00</Appliedpenalty>
<Calculatedpenalty>0.00</Calculatedpenalty>
<Fvalue>800</Fvalue>
<Timingby>Swiss Timing - ST Sportservice GmbH</Timingby>
<Dataprocessingby>Swiss Timing - ST Sportservice
GmbH</Dataprocessingby>
    <Softwarecompany>Siwidata</Softwarecompany>
    <Softwarename>Raceman</Softwarename>
    <Softwareversion>6.8.9</Softwareversion>
</CC_raceinfo>
<CC_classified>
    <!-- ... child elements of <CC_classified> omitted ... -->
</CC_classified>
<CC_notclassified>
    <!-- ... child elements of <CC_notclassified> omitted ... -->
</CC_notclassified>
</CC_race>
</Fisresults>

```

6. Example result individual competition

6.1 Individual, Mass start, Sprint Qualification

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="M">
    <!-- ... child elements of <Raceheader> omitted ... -->
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Rank Pf="y">1</Rank>
        <Bib>28</Bib>
        <Competitor>
          <Fiscode>1234567</Fiscode>
          <Lastname>Koch</Lastname>
          <Firstname>Martin</Firstname>
          <Gender>M</Gender>
          <Nation>AUT</Nation>
          <Yearofbirth>1982</Yearofbirth>
          <Clubname>Skiclub XY</Clubname>
        </Competitor>
        <CC_result>
          <Startdiff>0:00</Startdiff>
          <Totaltime>27:37.3</Totaltime>
          <Diff>0.0</Diff>
          <Racepoints>35.8</Racepoints>
          <Bonustime>0:15</Bonustime>
          <Penaltytime>0:00</Penaltytime>
          <Level></Level>
        </CC_result>
        <CC_resultdetail>
          <Intermediate i="1">
            <Time>6:30.9</Time>
            <Diff>0.00</Diff>
```

```

        <Rank>1</Rank>
        <Sectortime>6:30.9</Sectortime>
        <Sectordiff>0.0</Sectordiff>
        <Sectorrank>1</Sectorrank>
        <Bonustime></Bonustime>
        <Bonuspoints></Bonuspoints>
    </Intermediate>
    <Intermediate i="2">
        <Speed>34.8</Speed>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
    </Intermediate>
    <Intermediate i="3">
        <Time>12:34.8</Time>
        <Diff>0.00</Diff>
        <Rank>1</Rank>
        <Sectortime>6:03.9</Sectortime>
        <Sectordiff>0.0</Sectordiff>
        <Sectorrank>1</Sectorrank>
        <Bonustime>0:15</Bonustime>
        <Bonuspoints></Bonuspoints>
    </Intermediate>
    <Intermediate i="4">
        <Time>19:54.2</Time>
        <Diff>0.00</Diff>
        <Rank>1</Rank>
        <Sectortime>6:19.8</Sectortime>
        <Sectordiff>0.0</Sectordiff>
        <Sectorrank>1</Sectorrank>
        <Bonustime></Bonustime>
        <Bonuspoints></Bonuspoints>
    </Intermediate>
</CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
    <Rank Pf="y">2</Rank>
    <Bib>27</Bib>
    <Competitor>
        <Fiscode>206743</Fiscode>
        <Lastname>Ammann</Lastname>
        <Firstname>Simon</Firstname>
    </Competitor>

```

```
<Gender>M</Gender>
<Nation>SUI</Nation>
<Yearofbirth>1981</Yearofbirth>
<Clubname>Skiclub XY</Clubname>
</Competitor>
<CC_result>
  <Totaltime>27:29.3</Totaltime>
  <Diff>8.0</Diff>
  <Racepoints>43.2</Racepoints>
  <Bonustime>0:10</Bonustime>
  <Penaltytime>0:30</Penaltytime>
  <Level></Level>
</CC_result>
<CC_resultdetail>
  <Intermediate i="1">
    <Time>6:35.9</Time>
    <Diff>5.0</Diff>
    <Rank>3</Rank>
    <Sectortime>6:35.9</Sectortime>
    <Sectordiff>5.0</Sectordiff>
    <Sectorrank>3</Sectorrank>
    <Bonustime></Bonustime>
    <Bonuspoints></Bonuspoints>
  </Intermediate>
  <Intermediate i="2">
    <Time>12:54.8</Time>
    <Diff>20.0</Diff>
    <Rank>7</Rank>
    <Sectortime>6:35.9</Sectortime>
    <Sectordiff>5.00</Sectordiff>
    <Sectorrank>3</Sectorrank>
    <Bonustime></Bonustime>
    <Bonuspoints></Bonuspoints>
  </Intermediate>
  <Intermediate i="3">
    <Time>20:02.2</Time>
    <Diff>8.0</Diff>
    <Rank>2</Rank>
    <Sectortime>6:35.9</Sectortime>
    <Sectordiff>5.0</Sectordiff>
    <Sectorrank>3</Sectorrank>
```

```

        <Bonustime></Bonustime>
        <Bonuspoints></Bonuspoints>
    </Intermediate>
</CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF" Status2="LAP">
    <Rank>67</Rank>
    <Bib>27</Bib>
    <Competitor>
        <Fiscode>897092</Fiscode>
        <Lastname>Meier</Lastname>
        <Firstname>Hermann</Firstname>
        <Gender>M</Gender>
        <Nation>AUT</Nation>
        <Yearofbirth>1971</Yearofbirth>
        <Clubname>Skiclub XY</Clubname>
    </Competitor>
    <CC_result></CC_result>
    <CC_resultdetail>
        <Intermediate i="1">
            <Time>11:35.9</Time>
            <Diff>5:30.0</Diff>
            <Rank>67</Rank>
            <Sectortime>11:35.9</Sectortime>
            <Sectordiff>5:30.0</Sectordiff>
            <Sectorrank>67</Sectorrank>
            <Bonustime></Bonustime>
            <Bonuspoints></Bonuspoints>
        </Intermediate>
    </CC_resultdetail>
</CC_ranked>
</CC_classified>
<CC_notclassified>
    <CC_notranked Status="DSQ">
        <Bib>69</Bib>
        <Competitor>
            <Fiscode>134234</Fiscode>
            <Lastname>Kofler</Lastname>
            <Firstname>Andreas</Firstname>
            <Gender>M</Gender>
            <Nation>AUT</Nation>

```

```

        <Yearofbirth>1984</Yearofbirth>
        <Clubname>Skiclub XY</Clubname>
    </Competitor>
    <Reason>ICR 123.4</Reason>
</CC_notranked>
<CC_notranked Status="DNF">
    <Bib>18</Bib>
    <Competitor>
        <Fiscode>234123</Fiscode>
        <Lastname>Kim</Lastname>
        <Firstname>Hyun-Ki</Firstname>
        <Gender>M</Gender>
        <Nation>KOR</Nation>
        <Yearofbirth>1983</Yearofbirth>
        <Clubname>Skiclub XY</Clubname>
    </Competitor>
    <CC_result></CC_result>
    <CC_resultdetail>
        <Intermediate i="1">
            <Time>6:35.9</Time>
            <Diff>0:30.0</Diff>
            <Rank>7</Rank>
            <Sectortime>6:35.9</Sectortime>
            <Sectordiff>0:30.0</Sectordiff>
            <Sectorrank>7</Sectorrank>
            <Bonustime></Bonustime>
            <Bonuspoints></Bonuspoints>
        </Intermediate>
    </CC_resultdetail>
</CC_notranked>
<CC_notranked Status="DNS">
    <Bib>8</Bib>
    <Competitor>
        <Fiscode>2025</Fiscode>
        <Lastname>Choi</Lastname>
        <Firstname>Heung-Chul</Firstname>
        <Gender>M</Gender>
        <Nation>KOR</Nation>
        <Yearofbirth>1981</Yearofbirth>
        <Clubname>Skiclub XY</Clubname>
    </Competitor>

```

```
</CC_notranked>  
</CC_notclassified>  
</CC_race>  
</Fisresults>
```

6.2 Pursuit

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="W">
    <!-- ... child elements of <Raceheader> omitted ... -->
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Bib>6</Bib>
        <Rank>1</Rank>
        <Competitor>
          <Fiscode>3185256</Fiscode>
          <Lastname>PARMAKOSKI</Lastname>
          <Firstname>Krista</Firstname>
          <Nation>FIN</Nation>
        </Competitor>
        <CC_result>
          <Totaltime>33:41.8</Totaltime>
          <Arrivaltime>37:08.6</Arrivaltime>
          <Arrivalrank>4</Arrivalrank>
          <Racepoints>0.00</Racepoints>
        </CC_result>
        <CC_resultdetail>
          <!-- ... child elements of <CC_resultdetail> omitted ... -->
        </CC_resultdetail>
      </CC_ranked>
      <CC_ranked Status="QLF">
        <Bib>2</Bib>
        <Rank>2</Rank>
        <Competitor>
          <Fiscode>3425301</Fiscode>
          <Lastname>JOHAUG</Lastname>
          <Firstname>Therese</Firstname>
          <Nation>NOR</Nation>
        </Competitor>
```

```
<CC_result>
  <Totaltime>33:42.4</Totaltime>
  <Arrivaltime>34:12.4</Arrivaltime>
  <Arrivalrank>1</Arrivalrank>
  <Racepoints>0.36</Racepoints>
</CC_result>
<CC_resultdetail>
  <!-- ... child elements of <CC_resultdetail> omitted ... -->
</CC_resultdetail>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>
<CC_notclassified>
  <CC_notranked Status="DNS">
    <Bib>44</Bib>
    <Competitor>
      <Fiscode>3105146</Fiscode>
      <Lastname>BEATTY</Lastname>
      <Firstname>Dahria</Firstname>
      <Nation>CAN</Nation>
    </Competitor>
  </CC_notranked>
</CC_notclassified>
</CC_race>
</Fisresults>
```

6.3 Sprint Final

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="M">
    <!-- ... further child elements of <Raceheader> omitted ... -->
    <Discipline>SPF</Discipline>
    <Type>Official</Type>
    <Phase>final</Phase>
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Rank>1</Rank>
        <Bib>28</Bib>
        <Competitor>
          <Fiscode>1234567</Fiscode>
          <Lastname>Koch</Lastname>
          <Firstname>Martin</Firstname>
          <Gender>M</Gender>
          <Nation>AUT</Nation>
          <Yearofbirth>1982</Yearofbirth>
          <Clubname>Skiclub XY</Clubname>
        </Competitor>
        <CC_result>
          <Level>final</Level>
        </CC_result>
        <CC_resultdetail>
          <Heat No="1" Level="final">
            <Rank>1</Rank>
            <Time>2:30.9</Time>
            <Diff>0.0</Diff>
          </Heat>
          <Heat No="2" Level="semifinal">
            <Rank Pf="y">3</Rank>
            <Time LLrank="1">2:31.9</Time>
            <Diff>2.1</Diff>
          </Heat>
        </CC_resultdetail>
      </CC_ranked>
    </CC_classified>
  </CC_race>
</Fisresults>
```

```
</Heat>
<Heat No="4" Level="quarterfinal">
  <Rank>1</Rank>
  <Time>2:33.9</Time>
  <Diff>0.0</Diff>
</Heat>
</CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
  <Rank>2</Rank>
  <Bib>27</Bib>
  <Competitor>
    <Fiscode>206743</Fiscode>
    <Lastname>Ammann</Lastname>
    <Firstname>Simon</Firstname>
    <Gender>M</Gender>
    <Nation>SUI</Nation>
    <Yearofbirth>1981</Yearofbirth>
    <Clubname>Skiclub XY</Clubname>
  </Competitor>
  <CC_result>
    <Level>final</Level>
  </CC_result>
  <CC_resultdetail>
    <Heat No="1" Level="final">
      <Rank>2</Rank>
      <Time>2:31.9</Time>
      <Diff>1.0</Diff>
    </Heat>
    <Heat No="1" Level="semifinal">
      <Rank>1</Rank>
      <Time>2:30.9</Time>
      <Diff>0.0</Diff>
    </Heat>
    <Heat No="2" Level="quarterfinal">
      <Rank>4</Rank>
      <Time LLrank="2">2:32.9</Time>
      <Diff>3.4</Diff>
    </Heat>
  </CC_resultdetail>
</CC_ranked>
```

```
<!-- ... further <CC_ranked> elements omitted ... -->
<CC_ranked Status="QLF" Status2="RAL">
  <Rank>30</Rank>
  <Bib>30</Bib>
  <Competitor>
    <Fiscode>875456</Fiscode>
    <Lastname>Schneider</Lastname>
    <Firstname>Bernd</Firstname>
    <Gender>M</Gender>
    <Nation>GER</Nation>
    <Yearofbirth>1981</Yearofbirth>
    <Clubname>Skiclub XY</Clubname>
  </Competitor>
  <CC_result>
    <Level>quarterfinal</Level>
  </CC_result>
  <CC_resultdetail>
    <Heat No="5" Level="quarterfinal">
      <Rank>6</Rank>
      <Time>RAL</Time>
      <Diff></Diff>
    </Heat>
  </CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
  <Rank>31</Rank>
  <Bib>30</Bib>
  <Competitor>
    <Fiscode>1235454</Fiscode>
    <Lastname>Haemaelaeinen</Lastname>
    <Firstname>Simon</Firstname>
    <Gender>M</Gender>
    <Nation>FIN</Nation>
    <Yearofbirth>1981</Yearofbirth>
    <Clubname>Skiclub XY</Clubname>
  </Competitor>
  <CC_result>
    <Level>qualification</Level>
  </CC_result>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
```

```

</CC_classified>
<CC_notclassified>
  <CC_notranked Status="DSQ">
    <Bib>69</Bib>
    <Competitor>
      <Fiscode>134234</Fiscode>
      <Lastname>Kofler</Lastname>
      <Firstname>Andreas</Firstname>
      <Gender>M</Gender>
      <Nation>AUT</Nation>
      <Yearofbirth>1984</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
    <Reason>ICR 123.4</Reason>
    <Level>quarterfinal</Level>
    <CC_resultdetail>
      <Heat No="1" Level="quarterfinal">
        <Time>DSQ</Time>
      </Heat>
    </CC_resultdetail>
  </CC_notranked>
  <CC_notranked Status="DNF">
    <Bib>16</Bib>
    <Competitor>
      <Fiscode>234123</Fiscode>
      <Lastname>Kim</Lastname>
      <Firstname>Hyun-Ki</Firstname>
      <Gender>M</Gender>
      <Nation>KOR</Nation>
      <Yearofbirth>1983</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
    <CC_result>
      <Level>qualification</Level>
    </CC_result>
  </CC_notranked>
  <CC_notranked Status="DNS">
    <Bib>8</Bib>
    <Competitor>
      <Fiscode>2025</Fiscode>
      <Lastname>Choi</Lastname>

```

```
<Firstname>Heung-Chul</Firstname>
<Gender>M</Gender>
<Nation>KOR</Nation>
<Yearofbirth>1981</Yearofbirth>
<Clubname>Skiclub XY</Clubname>
</Competitor>
<CC_result>
  <Level>qualification</Level>
</CC_result>
</CC_notranked>
</CC_notclassified>
</CC_race>
</Fisresults>
```

7. Example result team competition

7.1 Relay

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="W">
    <!-- ... child elements of <Raceheader> omitted ... -->
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Bib Color="red">1</Bib>
        <Rank>1</Rank>
        <Team>
          <Fiscode>100069</Fiscode>
          <Teamname>Norway 1</Teamname>
          <Nation>NOR</Nation>
        </Team>
        <CC_result>
          <Totaltime>56:29.7</Totaltime>
          <Diff>0.0</Diff>
        </CC_result>
        <CC_resultdetail>
          <Intermediate i="1">
            <Time>6:30.9</Time>
            <Diff>0.0</Diff>
            <Rank>1</Rank>
            <Sectortime>6:30.9</Sectortime>
            <Sectordiff>0.0</Sectordiff>
            <Sectorrank>1</Sectorrank>
          </Intermediate>
          <Intermediate i="2">
            <Time>12:34.8</Time>
            <Diff>0.0</Diff>
            <Rank>1</Rank>
          </Intermediate>
        </CC_resultdetail>
      </CC_ranked>
    </CC_classified>
  </CC_race>
</Fisresults>
```

```

        <Sectortime>6:03.9</Sectortime>
        <Sectordiff>0.0</Sectordiff>
        <Sectorrank>1</Sectorrank>
    </Intermediate>
    <Intermediate i="3">
        <Time>19:54.2</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Sectortime>6:19.8</Sectortime>
        <Sectordiff>0.0</Sectordiff>
        <Sectorrank>1</Sectorrank>
    </Intermediate>
    <!-- ... further <Intermediate> elements omitted ... -->
    <Intermediate i="99">
        <Time>56:29.7</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Sectortime>6:09.1</Sectortime>
        <Sectordiff>0.0</Sectordiff>
        <Sectorrank>1</Sectorrank>
    </Intermediate>
</CC_resultdetail>
<CC_team>
    <CC_ranked Status="QLF">
        <Bib Color="red" Style="C" Leg="1">11</Bib>
        <Competitor>
            <Fiscode>3425025</Fiscode>
            <Lastname>TYLDUM</Lastname>
            <Firstname>Ingrid Aunet</Firstname>
            <Nation>NOR</Nation>
        </Competitor>
        <CC_resultdetail>
            <Intermediate i="1">
                <Time>6:30.9</Time>
                <Diff>0.0</Diff>
                <Rank>1</Rank>
            </Intermediate>
            <Intermediate i="2">
                <Time>12:34.8</Time>
                <Diff>1.0</Diff>
                <Rank>2</Rank>

```

```

        </Intermediate>
        <Intermediate i="3">
            <Time>19:54.2</Time>
            <Diff>0.0</Diff>
            <Rank>1</Rank>
        </Intermediate>
    </CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
    <Bib Color="green" Style="C" Leg="2">12</Bib>
    <Competitor>
        <Fiscode>3425183</Fiscode>
        <Lastname>JACOBSEN</Lastname>
        <Firstname>Astrid</Firstname>
        <Nation>NOR</Nation>
    </Competitor>
    <CC_resultdetail>
        <Intermediate i="4">
            <Time>6:15.9</Time>
            <Diff>0.0</Diff>
            <Rank>1</Rank>
        </Intermediate>
        <Intermediate i="5">
            <Time>12:14.8</Time>
            <Diff>1.0</Diff>
            <Rank>2</Rank>
        </Intermediate>
        <Intermediate i="6">
            <Time>19:34.2</Time>
            <Diff>0.0</Diff>
            <Rank>1</Rank>
        </Intermediate>
    </CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
    <Bib Color="yellow" Style="F" Leg="3">13</Bib>
    <Competitor>
        <Fiscode>3425003</Fiscode>
        <Lastname>STEIRA</Lastname>
        <Firstname>Kristin Stoermer</Firstname>
        <Nation>NOR</Nation>
    </Competitor>

```

```
</Competitor>
<CC_resultdetail>
  <Intermediate i="7">
    <Time>6:01.9</Time>
    <Diff>0.0</Diff>
    <Rank>1</Rank>
  </Intermediate>
  <Intermediate i="8">
    <Time>12:03.8</Time>
    <Diff>1.0</Diff>
    <Rank>2</Rank>
  </Intermediate>
  <Intermediate i="9">
    <Time>19:04.2</Time>
    <Diff>0.0</Diff>
    <Rank>1</Rank>
  </Intermediate>
</CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib Color="blue" Style="F" Leg="4">14</Bib>
  <Competitor>
    <Fiscode>1303777</Fiscode>
    <Lastname>BJOERGEN</Lastname>
    <Firstname>Marit</Firstname>
    <Nation>NOR</Nation>
  </Competitor>
  <CC_resultdetail>
    <Intermediate i="10">
      <Time>5:58.9</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
    <Intermediate i="11">
      <Time>11:34.8</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
    </Intermediate>
    <Intermediate i="99">
      <Time>18:34.2</Time>
      <Diff>0.0</Diff>
```

```

        <Rank>1</Rank>
      </Intermediate>
    </CC_resultdetail>
  </CC_ranked>
</CC_team>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib>2</Bib>
  <Rank>2</Rank>
  <Team>
    <Fiscode>74586</Fiscode>
    <Teamname>Finland</Teamname>
    <Nation>FIN</Nation>
  </Team>
  <CC_result>
    <Totaltime>57:00.6</Totaltime>
    <Diff>2.0</Diff>
  </CC_result>
  <CC_resultdetail>
    <Intermediate i="1">
      <Time>6:31.9</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
      <Sectortime>6:31.9</Sectortime>
      <Sectordiff>1.0</Sectordiff>
      <Sectorrank>2</Sectorrank>
    </Intermediate>
    <Intermediate i="2">
      <Time>12:35.8</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
      <Sectortime>6:04.9</Sectortime>
      <Sectordiff>2.0</Sectordiff>
      <Sectorrank>2</Sectorrank>
    </Intermediate>
    <Intermediate i="3">
      <Time>19:56.2</Time>
      <Diff>2.0</Diff>
      <Rank>3</Rank>
      <Sectortime>6:21.8</Sectortime>
      <Sectordiff>2.0</Sectordiff>
    </Intermediate>
  </CC_resultdetail>
</CC_ranked>

```

```

        <Sectorrank>3</Sectorrank>
    </Intermediate>
    <!-- ... further <Intermediate> elements omitted ... -->
</CC_resultdetail>
<CC_team>
    <CC_ranked Status="QLF">
        <Bib Color="red" Style="C" Leg="1">21</Bib>
        <Competitor>
            <Fiscode>1166037</Fiscode>
            <Lastname>KUITUNEN</Lastname>
            <Firstname>Virpi</Firstname>
            <Nation>FIN</Nation>
        </Competitor>
        <CC_resultdetail>
            <Intermediate i="1">
                <Time>6:30.9</Time>
                <Diff>0.0</Diff>
                <Rank>1</Rank>
            </Intermediate>
            <Intermediate i="2">
                <Time>12:34.8</Time>
                <Diff>1.0</Diff>
                <Rank>2</Rank>
            </Intermediate>
            <Intermediate i="3">
                <Time>19:54.2</Time>
                <Diff>0.0</Diff>
                <Rank>1</Rank>
            </Intermediate>
        </CC_resultdetail>
    </CC_ranked>
    <CC_ranked Status="QLF">
        <Bib Color="green" Style="C" Leg="2">22</Bib>
        <Competitor>
            <Fiscode>1255665</Fiscode>
            <Lastname>SAARINEN</Lastname>
            <Firstname>Aino Kaisa</Firstname>
            <Nation>FIN</Nation>
        </Competitor>
        <CC_resultdetail>
            <Intermediate i="4">

```

```
<Time>6:30.9</Time>
<Diff>0.0</Diff>
<Rank>1</Rank>
</Intermediate>
<Intermediate i="5">
  <Time>12:34.8</Time>
  <Diff>1.0</Diff>
  <Rank>2</Rank>
</Intermediate>
<Intermediate i="6">
  <Time>19:54.2</Time>
  <Diff>0.0</Diff>
  <Rank>1</Rank>
</Intermediate>
</CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib Color="yellow" Style="F" Leg="3">23</Bib>
  <Competitor>
    <Fiscode>1255374</Fiscode>
    <Lastname>ROPONEN</Lastname>
    <Firstname>Riitta-Liisa</Firstname>
    <Nation>FIN</Nation>
  </Competitor>
  <CC_resultdetail>
    <Intermediate i="7">
      <Time>6:30.9</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
    <Intermediate i="8">
      <Time>12:34.8</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
    </Intermediate>
    <Intermediate i="9">
      <Time>19:54.2</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
  </CC_resultdetail>
```

```

</CC_ranked>
<CC_ranked Status="QLF">
  <Bib Color="blue" Style="F" Leg="4">20</Bib>
  <Competitor>
    <Fiscode>3185004</Fiscode>
    <Lastname>SARASOJA</Lastname>
    <Firstname>Riikka</Firstname>
    <Nation>FIN</Nation>
  </Competitor>
  <CC_resultdetail>
    <Intermediate i="10">
      <Time>6:30.9</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
    <Intermediate i="11">
      <Time>12:34.8</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
    </Intermediate>
    <Intermediate i="99">
      <Time>19:54.2</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
  </CC_resultdetail>
</CC_ranked>
</CC_team>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
<CC_ranked Status="QLF" Status2="LAP">
  <Bib>5</Bib>
  <Rank>14</Rank>
  <Team>
    <Fiscode>100075</Fiscode>
    <Teamname>Sweden 1</Teamname>
    <Nation>SWE</Nation>
  </Team>
  <CC_result>
    <Totaltime></Totaltime>
  </CC_result>

```

```

<CC_resultdetail>
  <Intermediate i="1">
    <Time>6:36.9</Time>
    <Diff>6.0</Diff>
    <Rank>6</Rank>
    <Sectortime>6:36.9</Sectortime>
    <Sectordiff>6.0</Sectordiff>
    <Sectorrank>6</Sectorrank>
  </Intermediate>
  <Intermediate i="2">
    <Time>12:44.8</Time>
    <Diff>10.0</Diff>
    <Rank>7</Rank>
    <Sectortime>6:13.9</Sectortime>
    <Sectordiff>10.0</Sectordiff>
    <Sectorrank>6</Sectorrank>
  </Intermediate>
  <Intermediate i="3">
    <Time>20:54.2</Time>
    <Diff>1:00.0</Diff>
    <Rank>14</Rank>
    <Sectortime>7:19.8</Sectortime>
    <Sectordiff>1:00.0</Sectordiff>
    <Sectorrank>14</Sectorrank>
  </Intermediate>
  <!-- ... further <Intermediate> elements omitted ... -->
</CC_resultdetail>
<CC_team>
  <CC_ranked Status="QLF" Status2="LAP">
    <Bib Color="red" Style="C" Leg="1">51</Bib>
    <Competitor>
      <Fiscode>3505069</Fiscode>
      <Lastname>LINDBORG</Lastname>
      <Firstname>Sara</Firstname>
      <Nation>SWE</Nation>
    </Competitor>
    <CC_resultdetail>
      <Intermediate i="1">
        <Time>6:36.9</Time>
        <Diff>6.0</Diff>
        <Rank>6</Rank>

```

```

    </Intermediate>
    <Intermediate i="2">
      <Time>12:44.8</Time>
      <Diff>10.0</Diff>
      <Rank>7</Rank>
    </Intermediate>
    <Intermediate i="3">
      <Time>20:54.2</Time>
      <Diff>1:00.0</Diff>
      <Rank>14</Rank>
    </Intermediate>
  </CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF" Status2="LAP">
  <Bib Color="green" Style="C" Leg="2">52</Bib>
  <Competitor>
    <Fiscode>3505183</Fiscode>
    <Lastname>HANSSON</Lastname>
    <Firstname>Anna</Firstname>
    <Nation>SWE</Nation>
  </Competitor>
  <CC_resultdetail>
    <Intermediate i="3">
      <Time>6:30.9</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
    <Intermediate i="4">
      <Time>12:34.8</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
    </Intermediate>
    <Intermediate i="5">
      <Time>19:54.2</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
  </CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF" Status2="LAP">
  <Bib Color="yellow" Style="F" Leg="3">53</Bib>

```

```

    <Competitor>
      <Fiscode>3505217</Fiscode>
      <Lastname>KALLA</Lastname>
      <Firstname>Charlotte</Firstname>
      <Nation>SWE</Nation>
    </Competitor>
    <CC_resultdetail>
      <Intermediate i="6">
        <Time>6:59.9</Time>
        <Diff>29.0</Diff>
        <Rank>14</Rank>
      </Intermediate>
    </CC_resultdetail>
  </CC_ranked>
  <CC_ranked Status="QLF" Status2="LAP">
    <Bib Color="blue" Style="F" Leg="4">54</Bib>
    <Competitor>
      <Fiscode>3505003</Fiscode>
      <Lastname>RYDQVIST</Lastname>
      <Firstname>Maria</Firstname>
      <Nation>SWE</Nation>
    </Competitor>
    <CC_resultdetail>
    </CC_resultdetail>
  </CC_ranked>
</CC_team>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>
<CC_notclassified>
  <CC_notranked Status="DNF">
    <Bib>11</Bib>
    <Rank>13</Rank>
    <Team>
      <Fiscode>76932</Fiscode>
      <Teamname>Sweden 3</Teamname>
      <Nation>SWE</Nation>
    </Team>
    <CC_result>
    </CC_result>
    <CC_resultdetail>

```

```

    <Intermediate i="1">
      <Time>6:33.9</Time>
      <Diff>3.0</Diff>
      <Rank>4</Rank>
      <Sectortime>6:33.9</Sectortime>
      <Sectordiff>3.0</Sectordiff>
      <Sectorrank>4</Sectorrank>
    </Intermediate>
    <Intermediate i="2">
      <Time>12:35.8</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
      <Sectortime>6:04.9</Sectortime>
      <Sectordiff>0.0</Sectordiff>
      <Sectorrank>2</Sectorrank>
    </Intermediate>
    <Intermediate i="3">
      <Time>19:59.2</Time>
      <Diff>5.0</Diff>
      <Rank>4</Rank>
      <Sectortime>6:29.8</Sectortime>
      <Sectordiff>0.0</Sectordiff>
      <Sectorrank>3</Sectorrank>
    </Intermediate>
    <!-- ... further <Intermediate> elements omitted ... -->
  </CC_resultdetail>
  <CC_team>
    <CC_notranked Status="DNF">
      <Bib Color="red" Style="C" Leg="1">111</Bib>
      <Competitor>
        <Fiscode>1283116</Fiscode>
        <Lastname>ANDERSSON</Lastname>
        <Firstname>Lina</Firstname>
        <Nation>SWE</Nation>
      </Competitor>
      <CC_resultdetail>
        <Intermediate i="1">
          <Time>6:30.9</Time>
          <Diff>0.0</Diff>
          <Rank>1</Rank>
        </Intermediate>

```

```
<Intermediate i="2">
  <Time>12:34.8</Time>
  <Diff>1.0</Diff>
  <Rank>2</Rank>
</Intermediate>
<Intermediate i="3">
  <Time>19:54.2</Time>
  <Diff>0.0</Diff>
  <Rank>1</Rank>
</Intermediate>
</CC_resultdetail>
</CC_notranked>
<CC_notranked Status="DNF">
  <Bib Color="green" Style="C" Leg="2">112</Bib>
  <Competitor>
    <Fiscode>3505057</Fiscode>
    <Lastname>NYSTROEM</Lastname>
    <Firstname>Susanne</Firstname>
    <Nation>SWE</Nation>
  </Competitor>
  <CC_resultdetail>
    <Intermediate i="4">
      <Time>6:30.9</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
    <Intermediate i="5">
      <Time>12:34.8</Time>
      <Diff>1.0</Diff>
      <Rank>2</Rank>
    </Intermediate>
    <Intermediate i="6">
      <Time>19:54.2</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
  </CC_resultdetail>
</CC_notranked>
<CC_notranked Status="DNF">
  <Bib Color="yellow" Style="F" Leg="3">113</Bib>
  <Competitor>
```

```
<Fiscode>1283407</Fiscode>
<Lastname>STROEMSTEDT</Lastname>
<Firstname>Anna Karin</Firstname>
<Nation>SWE</Nation>
</Competitor>
<CC_resultdetail>
  <Intermediate i="7">
    <Time>6:30.9</Time>
    <Diff>0.0</Diff>
    <Rank>1</Rank>
  </Intermediate>
  <Intermediate i="8">
    <Time>12:34.8</Time>
    <Diff>1.0</Diff>
    <Rank>2</Rank>
  </Intermediate>
  <Intermediate i="9">
    <Time>19:54.2</Time>
    <Diff>0.0</Diff>
    <Rank>1</Rank>
  </Intermediate>
</CC_resultdetail>
</CC_notranked>
<CC_notranked Status="DNF">
  <Bib Color="blue" Style="F" Leg="4">114</Bib>
  <Competitor>
    <Fiscode>3505186</Fiscode>
    <Lastname>ERIKSSON</Lastname>
    <Firstname>Emma</Firstname>
    <Nation>SWE</Nation>
  </Competitor>
  <CC_resultdetail>
    <Intermediate i="10">
      <Time>6:30.9</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
    </Intermediate>
  </CC_resultdetail>
</CC_notranked>
</CC_team>
</CC_notranked>
```

```
</CC_notclassified>  
</CC_race>  
</Fisresults>
```

7.2 Team Sprint

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="M">
    <!-- ... child elements of <Raceheader> omitted ... -->
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Rank>1</Rank>
        <Bib Color="red">28</Bib>
        <Team>
          <Fiscode>75890</Fiscode>
          <Teamname>United States of America</Teamname>
          <Nation>USA</Nation>
        </Team>
        <CC_result>
          <Level>final</Level>
        </CC_result>
        <CC_resultdetail>
          <Heat No="1" Level="final">
            <Rank>1</Rank>
            <Time>10:41.1</Time>
            <Diff>0.0</Diff>
          </Heat>
          <Heat No="2" Level="semifinal">
            <Rank Pf="y">4</Rank>
            <Time LLrank="2">10:31.9</Time>
            <Diff>2.1</Diff>
          </Heat>
        </CC_resultdetail>
        <CC_team>
          <CC_ranked Status="QLF">
            <Bib Color="red" Leg="1">28</Bib>
            <Competitor>
              <Fiscode>3423423</Fiscode>
```

```
<Lastname>Koch</Lastname>
<Firstname>Martin</Firstname>
<Gender>M</Gender>
<Nation>USA</Nation>
<Yearofbirth>1982</Yearofbirth>
<Clubname>Skiclub XY</Clubname>
</Competitor>
<CC_resultdetail>
  <Heat No="1" Level="final">
    <Intermediate i="1">
      <Time>2:03.1</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
      <Legtime>2:03.1</Legtime>
      <Legdiff>1.0</Legdiff>
      <Legrank>2</Legrank>
    </Intermediate>
    <Intermediate i="3">
      <Time>5:30.3</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
      <Legtime>1:44.6</Legtime>
      <Legdiff>2.0</Legdiff>
      <Legrank>3</Legrank>
    </Intermediate>
    <Intermediate i="5">
      <Time>9:00.5</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
      <Legtime>1:45.9</Legtime>
      <Legdiff>2.9</Legdiff>
      <Legrank>4</Legrank>
    </Intermediate>
  </Heat>
  <Heat No="2" Level="semifinal">
    <Intermediate i="1">
      <Time>2:03.1</Time>
      <Diff>0.0</Diff>
      <Rank>1</Rank>
      <Legtime>2:03.1</Legtime>
      <Legdiff>1.0</Legdiff>
```

```

        <Legrank>2</Legrank>
    </Intermediate>
    <Intermediate i="3">
        <Time>5:30.3</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>1:44.6</Legtime>
        <Legdiff>2.0</Legdiff>
        <Legrank>3</Legrank>
    </Intermediate>
    <Intermediate i="5">
        <Time>9:00.5</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>1:45.9</Legtime>
        <Legdiff>2.9</Legdiff>
        <Legrank>4</Legrank>
    </Intermediate>
</Heat>
</CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
    <Bib Color="green" Leg="2">28</Bib>
    <Competitor>
        <Fiscode>1234567</Fiscode>
        <Lastname>NEWELL</Lastname>
        <Firstname>Andrew</Firstname>
        <Gender>M</Gender>
        <Nation>USA</Nation>
        <Yearofbirth>1980</Yearofbirth>
        <Clubname>Skiclub XY</Clubname>
    </Competitor>
    <CC_resultdetail>
        <Heat No="1" Level="final">
            <Intermediate i="2">
                <Time>3:45.7</Time>
                <Diff>0.0</Diff>
                <Rank>1</Rank>
                <Legtime>1:42.6</Legtime>
                <Legdiff>3.0</Legdiff>
                <Legrank>4</Legrank>
            </Intermediate>
        </Heat>
    </CC_resultdetail>
</CC_ranked>

```

```

</Intermediate>
<Intermediate i="4">
  <Time>7:14.6</Time>
  <Diff>0.0</Diff>
  <Rank>1</Rank>
  <Legtime>1:44.3</Legtime>
  <Legdiff>2.0</Legdiff>
  <Legrank>6</Legrank>
</Intermediate>
<Intermediate i="99">
  <Time>10:41.1</Time>
  <Diff>0.0</Diff>
  <Rank>1</Rank>
  <Legtime>1:40.6</Legtime>
  <Legdiff>2.9</Legdiff>
  <Legrank>3</Legrank>
</Intermediate>
</Heat>
<Heat No="2" Level="semifinal">
  <Intermediate i="2">
    <Time>3:45.7</Time>
    <Diff>0.0</Diff>
    <Rank>1</Rank>
    <Legtime>1:42.6</Legtime>
    <Legdiff>3.0</Legdiff>
    <Legrank>4</Legrank>
  </Intermediate>
  <Intermediate i="4">
    <Time>7:14.6</Time>
    <Diff>0.0</Diff>
    <Rank>1</Rank>
    <Legtime>1:44.3</Legtime>
    <Legdiff>2.0</Legdiff>
    <Legrank>6</Legrank>
  </Intermediate>
  <Intermediate i="99">
    <Time>10:41.1</Time>
    <Diff>0.0</Diff>
    <Rank>1</Rank>
    <Legtime>1:40.6</Legtime>
    <Legdiff>2.9</Legdiff>
  </Intermediate>

```

```

        <Legrank>3</Legrank>
    </Intermediate>
</Heat>
</CC_resultdetail>
</CC_ranked>
    <!-- ... further <CC_ranked> elements omitted ... -->
</CC_team>
</CC_ranked>
<CC_ranked Status="QLF">
    <Rank>11</Rank>
    <Bib>2</Bib>
    <Team>
        <Fiscode>454545</Fiscode>
        <Teamname>Poland</Teamname>
        <Nation>POL</Nation>
    </Team>
    <CC_result>
        <Level>semifinal</Level>
    </CC_result>
    <CC_resultdetail>
        <Heat No="1" Level="final">
            <Rank>1</Rank>
            <Time>10:41.1</Time>
            <Diff>0.0</Diff>
        </Heat>
        <Heat No="1" Level="semifinal">
            <Rank Pf="y">7</Rank>
            <Time>10:31.9</Time>
            <Diff>7.1</Diff>
        </Heat>
    </CC_resultdetail>
    <CC_team>
        <CC_ranked Status="QLF">
            <Bib Color="red" Leg="1">2</Bib>
            <Competitor>
                <Fiscode>46545465</Fiscode>
                <Lastname>Wischnewski</Lastname>
                <Firstname>Justin</Firstname>
                <Gender>M</Gender>
                <Nation>POL</Nation>
                <Yearofbirth>1982</Yearofbirth>
            </Competitor>
        </CC_ranked>
    </CC_team>

```

```

    <Clubname>Skiclub XY</Clubname>
  </Competitor>
  <CC_resultdetail>
    <Heat No="1" Level="final">
      <Intermediate i="1">
        <Time>2:03.1</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>2:03.1</Legtime>
        <Legdiff>1.0</Legdiff>
        <Legrank>2</Legrank>
      </Intermediate>
      <Intermediate i="3">
        <Time>5:30.3</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>1:44.6</Legtime>
        <Legdiff>2.0</Legdiff>
        <Legrank>3</Legrank>
      </Intermediate>
      <Intermediate i="5">
        <Time>9:00.5</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>1:45.9</Legtime>
        <Legdiff>2.9</Legdiff>
        <Legrank>4</Legrank>
      </Intermediate>
    </Heat>
    <Heat No="1" Level="semifinal">
      <!-- ... child elements of <Run> omitted ... -->
    </Heat>
  </CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib Color="green" Leg="2">2</Bib>
  <Competitor>
    <Fiscode>1345464</Fiscode>
    <Lastname>Koschwizc</Lastname>
    <Firstname>Andre</Firstname>
    <Gender>M</Gender>
  </Competitor>
</CC_ranked>

```

```

    <Nation>POL</Nation>
    <Yearofbirth>1980</Yearofbirth>
    <Clubname>Skiclub XY</Clubname>
  </Competitor>
  <CC_resulttdetail>
    <Heat No="1" Level="final">
      <Intermediate i="1">
        <Time>2:03.1</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>2:03.1</Legtime>
        <Legdiff>1.0</Legdiff>
        <Legrank>2</Legrank>
      </Intermediate>
      <Intermediate i="3">
        <Time>5:30.3</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>1:44.6</Legtime>
        <Legdiff>2.0</Legdiff>
        <Legrank>3</Legrank>
      </Intermediate>
      <Intermediate i="5">
        <Time>9:00.5</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>1:45.9</Legtime>
        <Legdiff>2.9</Legdiff>
        <Legrank>4</Legrank>
      </Intermediate>
    </Heat>
    <Heat No="1" Level="semifinal">
      <!-- ... child elements of <Run> omitted ... -->
    </Heat>
  </CC_resulttdetail>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_team>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>

```

```

<CC_notclassified>
  <CC_notranked Status="DNF">
    <Bib>12</Bib>
    <Team>
      <Fiscode>87566</Fiscode>
      <Teamname>Germany</Teamname>
      <Nation>GER</Nation>
    </Team>
    <Level>final</Level>
    <CC_team>
      <CC_notranked Status="DNF">
        <Bib Color="red" Leg="1">121</Bib>
        <Competitor>
          <Fiscode>3423423</Fiscode>
          <Lastname>Angerer</Lastname>
          <Firstname>Tobias</Firstname>
          <Gender>M</Gender>
          <Nation>GER</Nation>
          <Yearofbirth>1975</Yearofbirth>
          <Clubname>Skiclub XY</Clubname>
        </Competitor>
        <CC_resultdetail>
          <Heat No="1" Level="semifinal">
            <Intermediate i="1">
              <Time>1:43.6</Time>
              <Diff>1.0</Diff>
              <Rank>3</Rank>
              <Legtime>1:43.6</Legtime>
              <Legdiff>3.0</Legdiff>
              <Legrank>5</Legrank>
            </Intermediate>
            <Intermediate i="3">
              <Time>5:30.3</Time>
              <Diff>0.0</Diff>
              <Rank>1</Rank>
              <Legtime>1:44.6</Legtime>
              <Legdiff>2.0</Legdiff>
              <Legrank>3</Legrank>
            </Intermediate>
          </Heat>
        </CC_resultdetail>
      </CC_team>
    </CC_notranked>
  </CC_notclassified>

```

```

</CC_notranked>
<CC_notranked Status="DNF">
  <Bib Color="green" Leg="2">122</Bib>
  <Competitor>
    <Fiscode>2342342</Fiscode>
    <Lastname>Teichmann</Lastname>
    <Firstname>Axel</Firstname>
    <Gender>M</Gender>
    <Nation>GER</Nation>
    <Yearofbirth>1980</Yearofbirth>
    <Clubname>Skiclub XY</Clubname>
  </Competitor>
  <CC_resultdetail>
    <Heat No="1" Level="final">
      <Intermediate i="2">
        <Time>2:03.1</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>2:03.1</Legtime>
        <Legdiff>1.0</Legdiff>
        <Legrank>2</Legrank>
      </Intermediate>
      <Intermediate i="4">
        <Time>5:30.3</Time>
        <Diff>0.0</Diff>
        <Rank>1</Rank>
        <Legtime>1:44.6</Legtime>
        <Legdiff>2.0</Legdiff>
        <Legrank>3</Legrank>
      </Intermediate>
    </Heat>
    <Heat No="1" Level="semifinal">
      <!-- ... child elements of <Run> omitted ... -->
    </Heat>
  </CC_resultdetail>
</CC_notranked>
</CC_team>
<Reason>ICR 123.4</Reason>
</CC_notranked>
<CC_notranked Status="DSQ">
  <Bib>16</Bib>

```

```

<Team>
  <Fiscode>23434</Fiscode>
  <Teamname>Austria</Teamname>
  <Nation>AUT</Nation>
</Team>
<Level>semifinal</Level>
<CC_team>
  <CC_notranked Status="DNF">
    <Bib Color="red" Leg="1">121</Bib>
    <Competitor>
      <Fiscode>6785678</Fiscode>
      <Lastname>Huber</Lastname>
      <Firstname>Thomas</Firstname>
      <Gender>M</Gender>
      <Nation>AUT</Nation>
      <Yearofbirth>1975</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </CC_notranked>
  <CC_notranked Status="DNF">
    <Bib Color="green" Leg="2">122</Bib>
    <Competitor>
      <Fiscode>3422345</Fiscode>
      <Lastname>Reiter</Lastname>
      <Firstname>Hans</Firstname>
      <Gender>M</Gender>
      <Nation>AUT</Nation>
      <Yearofbirth>1980</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </CC_notranked>
</CC_team>
</CC_notranked>
<!-- ... further <CC_notranked> elements omitted ... -->
</CC_notclassified>
</CC_race>
</Fisresults>

```

8. Example start list individual competition

8.1 Individual, Mass start, Sprint Qualification

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="W">
    <!-- ... child elements of <Raceheader> omitted ... -->
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Bib>1</Bib>
        <Order>1</Order>
        <Competitor>
          <Fiscode>3205224</Fiscode>
          <Lastname>KOLB</Lastname>
          <Firstname>Hanna</Firstname>
          <Nation>GER</Nation>
        </Competitor>
      </CC_ranked>
      <CC_ranked Status="QLF">
        <Bib>2</Bib>
        <Order>2</Order>
        <Competitor>
          <Fiscode>3535124</Fiscode>
          <Lastname>SARGENT</Lastname>
          <Firstname>Ida</Firstname>
          <Nation>USA</Nation>
        </Competitor>
      </CC_ranked>
      <CC_ranked Status="QLF">
        <Bib>3</Bib>
        <Order>3</Order>
        <Competitor>
          <Fiscode>3535304</Fiscode>
```

```

        <Lastname>CALDWELL</Lastname>
        <Firstname>Sophie</Firstname>
        <Nation>USA</Nation>
    </Competitor>
</CC_ranked>
<CC_ranked Status="QLF">
    <Bib>4</Bib>
    <Order>4</Order>
    <Competitor>
        <Fiscode>1365857</Fiscode>
        <Lastname>RANDALL</Lastname>
        <Firstname>Kikkan</Firstname>
        <Nation>USA</Nation>
    </Competitor>
</CC_ranked>
<CC_ranked Status="QLF">
    <Bib>5</Bib>
    <Order>5</Order>
    <Competitor>
        <Fiscode>3565005</Fiscode>
        <Lastname>VISNAR</Lastname>
        <Firstname>Katja</Firstname>
        <Nation>SLO</Nation>
    </Competitor>
</CC_ranked>
    <!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>
</CC_race>
</Fisresults>

```

8.2 Sprint Final

The phase the start list is sent for is given in `<Phase>` of `<Raceheader>`. Each competitor is assigned to a heat of that phase with `<Heat>` in `<CC_resultdetail>`, sent without `<Rank>`, `<Time>` and `<Diff>`. `<Order>` is the start position within the heat and therefore restarts with each heat.

```

<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="W">
    <!-- ... further child elements of <Raceheader> omitted ... -->
    <Discipline>SPF</Discipline>
    <Type>Startlist</Type>
    <Phase>quarterfinal</Phase>
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <!-- Quarterfinal heat 1 -->
      <CC_ranked Status="QLF">
        <Bib>1</Bib>
        <Order>1</Order>
        <Competitor>
          <Fiscode>3205224</Fiscode>
          <Lastname>KOLB</Lastname>
          <Firstname>Hanna</Firstname>
          <Nation>GER</Nation>
        </Competitor>
        <CC_resultdetail>
          <Heat No="1" Level="quarterfinal" />
        </CC_resultdetail>
      </CC_ranked>
      <CC_ranked Status="QLF">
        <Bib>2</Bib>
        <Order>2</Order>
        <Competitor>
          <Fiscode>3535124</Fiscode>
          <Lastname>SARGENT</Lastname>
          <Firstname>Ida</Firstname>
          <Nation>USA</Nation>
        </Competitor>
        <CC_resultdetail>
          <Heat No="1" Level="quarterfinal" />
        </CC_resultdetail>
      </CC_ranked>
      <!-- Quarterfinal heat 2, <Order> restarts within the heat -->

```

```
<CC_ranked Status="QLF">
  <Bib>3</Bib>
  <Order>1</Order>
  <Competitor>
    <Fiscode>3535304</Fiscode>
    <Lastname>CALDWELL</Lastname>
    <Firstname>Sophie</Firstname>
    <Nation>USA</Nation>
  </Competitor>
  <CC_resultdetail>
    <Heat No="2" Level="quarterfinal" />
  </CC_resultdetail>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib>4</Bib>
  <Order>2</Order>
  <Competitor>
    <Fiscode>1365857</Fiscode>
    <Lastname>RANDALL</Lastname>
    <Firstname>Kikkan</Firstname>
    <Nation>USA</Nation>
  </Competitor>
  <CC_resultdetail>
    <Heat No="2" Level="quarterfinal" />
  </CC_resultdetail>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>
</CC_race>
</Fisresults>
```

9. Example start list team competition

9.1 Relay

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="M">
    <!-- ... child elements of <Raceheader> omitted ... -->
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Bib>1</Bib>
        <Order>1</Order>
        <Team>
          <Fiscode>76683</Fiscode>
          <Teamname>UNITED STATES 2</Teamname>
          <Nation>USA</Nation>
        </Team>
        <CC_team>
          <CC_ranked Status="QLF">
            <Bib Color="red" Style="C" Leg="1">1</Bib>
            <Competitor>
              <Fiscode>3530005</Fiscode>
              <Lastname>NEWELL</Lastname>
              <Firstname>Andrew</Firstname>
              <Nation>USA</Nation>
            </Competitor>
          </CC_ranked>
          <CC_ranked Status="QLF">
            <Bib Color="green" Style="C" Leg="2">1</Bib>
            <Competitor>
              <Fiscode>3530772</Fiscode>
              <Lastname>LUSTGARTEN</Lastname>
              <Firstname>Benjamin</Firstname>
              <Nation>USA</Nation>
            </Competitor>
          </CC_ranked>
        </CC_team>
      </CC_ranked>
    </CC_classified>
  </CC_race>
</Fisresults>
```

```

    </Competitor>
  </CC_ranked>
  <CC_ranked Status="QLF">
    <Bib Color="yellow" Style="F" Leg="3">1</Bib>
    <Competitor>
      <Fiscode>123456</Fiscode>
      <Lastname>MILLER</Lastname>
      <Firstname>James</Firstname>
      <Nation>USA</Nation>
    </Competitor>
  </CC_ranked>
  <CC_ranked Status="QLF">
    <Bib Color="blue" Style="F" Leg="4">1</Bib>
    <Competitor>
      <Fiscode>678902</Fiscode>
      <Lastname>SMITH</Lastname>
      <Firstname>JOHN</Firstname>
      <Nation>USA</Nation>
    </Competitor>
  </CC_ranked>
</CC_team>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib>2</Bib>
  <Order>2</Order>
  <Team>
    <Fiscode>102344</Fiscode>
    <Teamname>FRANCE 1</Teamname>
    <Nation>FRA</Nation>
  </Team>
  <CC_team>
    <CC_ranked Status="QLF">
      <Bib Color="red" Style="C" Leg="1">2</Bib>
      <Competitor>
        <Fiscode>3190370</Fiscode>
        <Lastname>ARNAULT</Lastname>
        <Firstname>Clement</Firstname>
        <Nation>FRA</Nation>
      </Competitor>
    </CC_ranked>
  </CC_ranked Status="QLF">

```

```
<Bib Color="green" Style="C" Leg="2">2</Bib>
<Competitor>
  <Fiscode>3190323</Fiscode>
  <Lastname>CHANAVAT</Lastname>
  <Firstname>Lucas</Firstname>
  <Nation>FRA</Nation>
</Competitor>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib Color="yellow" Style="F" Leg="3">2</Bib>
  <Competitor>
    <Fiscode>987654</Fiscode>
    <Lastname>CHATEAU</Lastname>
    <Firstname>Sean</Firstname>
    <Nation>FRA</Nation>
  </Competitor>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib Color="blue" Style="F" Leg="4">2</Bib>
  <Competitor>
    <Fiscode>5634563</Fiscode>
    <Lastname>LIBERTE</Lastname>
    <Firstname>Pierre</Firstname>
    <Nation>FRA</Nation>
  </Competitor>
</CC_ranked>
</CC_team>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>
</CC_race>
</Fisresults>
```

9.2 Team Sprint Qualification

The qualification start list is sent without `<Phase>` and without `<Heat>` .

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="W">
    <!-- ... further child elements of <Raceheader> omitted ... -->
    <Discipline>TSPQ</Discipline>
    <Type>Startlist</Type>
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <CC_ranked Status="QLF">
        <Bib>1</Bib>
        <Order>1</Order>
        <Team>
          <Fiscode>3425823</Fiscode>
          <Teamname>NORWAY</Teamname>
          <Nation>NOR</Nation>
        </Team>
        <CC_team>
          <CC_ranked Status="QLF">
            <Bib Color="red" Style="C" Leg="1">1</Bib>
            <Competitor>
              <Fiscode>3425350</Fiscode>
              <Lastname>SLIND</Lastname>
              <Firstname>Astrid Oeyre</Firstname>
              <Gender>F</Gender>
              <Nation>NOR</Nation>
              <Yearofbirth>1988</Yearofbirth>
            </Competitor>
          </CC_ranked>
        </CC_team>
      </CC_ranked>
    </CC_classified>
  </CC_race>
</Fisresults>
```

```
<CC_ranked Status="QLF">
  <Bib Color="blue" Style="C" Leg="2">1</Bib>
  <Competitor>
    <Fiscode>3426712</Fiscode>
    <Lastname>DRIVENES</Lastname>
    <Firstname>Julie Bjervig</Firstname>
    <Gender>F</Gender>
    <Nation>NOR</Nation>
    <Yearofbirth>1999</Yearofbirth>
  </Competitor>
</CC_ranked>
</CC_team>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib>2</Bib>
  <Order>2</Order>
  <Team>
    <Fiscode>3505790</Fiscode>
    <Teamname>SWEDEN</Teamname>
    <Nation>SWE</Nation>
  </Team>
  <CC_team>
    <CC_ranked Status="QLF">
      <Bib Color="red" Style="C" Leg="1">2</Bib>
      <Competitor>
        <Fiscode>3505809</Fiscode>
        <Lastname>SUNDLING</Lastname>
        <Firstname>Jonna</Firstname>
        <Gender>F</Gender>
        <Nation>SWE</Nation>
        <Yearofbirth>1994</Yearofbirth>
      </Competitor>
    </CC_ranked>
    <CC_ranked Status="QLF">
      <Bib Color="blue" Style="C" Leg="2">2</Bib>
      <Competitor>
        <Fiscode>3505800</Fiscode>
        <Lastname>DAHLQVIST</Lastname>
        <Firstname>Maja</Firstname>
        <Gender>F</Gender>
        <Nation>SWE</Nation>
```

```
        <Yearofbirth>1994</Yearofbirth>
      </Competitor>
    </CC_ranked>
  </CC_team>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>
</CC_race>
</Fisresults>
```

9.3 Team Sprint Final

The phase the start list is sent for is given in `<Phase>` of `<Raceheader>`. Each team is assigned to a heat of that phase with `<Heat>` in `<CC_resulttdetail>`, sent without `<Rank>`, `<Time>` and `<Diff>`. `<Order>` is the start position within the heat and therefore restarts with each heat. The example shows the semifinals; the final is sent the same way with `<Phase>final</Phase>` and `Level="final"`.

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="CC" Gender="W">
    <!-- ... further child elements of <Raceheader> omitted ... -->
    <Discipline>TSP</Discipline>
    <Type>Startlist</Type>
    <Phase>semifinal</Phase>
  </Raceheader>
  <CC_race>
    <CC_raceinfo>
      <!-- ... child elements of <CC_raceinfo> omitted ... -->
    </CC_raceinfo>
    <CC_classified>
      <!-- Semifinal heat 1 -->
      <CC_ranked Status="QLF">
        <Bib>1</Bib>
        <Order>1</Order>
        <Team>
          <Fiscode>3425823</Fiscode>
          <Teamname>NORWAY</Teamname>
          <Nation>NOR</Nation>
        </Team>
        <CC_resulttdetail>
          <Heat No="1" Level="semifinal" />
        </CC_resulttdetail>
      </CC_ranked>
    </CC_classified>
  </CC_race>
</Fisresults>
```

```

<CC_team>
  <CC_ranked Status="QLF">
    <Bib Color="red" Style="C" Leg="1">1</Bib>
    <Competitor>
      <Fiscode>3425350</Fiscode>
      <Lastname>SLIND</Lastname>
      <Firstname>Astrid Oeyre</Firstname>
      <Gender>F</Gender>
      <Nation>NOR</Nation>
      <Yearofbirth>1988</Yearofbirth>
    </Competitor>
  </CC_ranked>
  <CC_ranked Status="QLF">
    <Bib Color="blue" Style="C" Leg="2">1</Bib>
    <Competitor>
      <Fiscode>3426712</Fiscode>
      <Lastname>DRIVENES</Lastname>
      <Firstname>Julie Bjervig</Firstname>
      <Gender>F</Gender>
      <Nation>NOR</Nation>
      <Yearofbirth>1999</Yearofbirth>
    </Competitor>
  </CC_ranked>
</CC_team>
</CC_ranked>
<!-- Semifinal heat 2, <Order> restarts within the heat -->
<CC_ranked Status="QLF">
  <Bib>2</Bib>
  <Order>1</Order>
  <Team>
    <Fiscode>3505790</Fiscode>
    <Teamname>SWEDEN</Teamname>
    <Nation>SWE</Nation>
  </Team>
  <CC_resultdetail>
    <Heat No="2" Level="semifinal" />
  </CC_resultdetail>
  <CC_team>
    <CC_ranked Status="QLF">
      <Bib Color="red" Style="C" Leg="1">2</Bib>
      <Competitor>

```

```
<Fiscode>3505809</Fiscode>
<Lastname>SUNDLING</Lastname>
<Firstname>Jonna</Firstname>
<Gender>F</Gender>
<Nation>SWE</Nation>
<Yearofbirth>1994</Yearofbirth>
</Competitor>
</CC_ranked>
<CC_ranked Status="QLF">
  <Bib Color="blue" Style="C" Leg="2">2</Bib>
  <Competitor>
    <Fiscode>3505800</Fiscode>
    <Lastname>DAHLQVIST</Lastname>
    <Firstname>Maja</Firstname>
    <Gender>F</Gender>
    <Nation>SWE</Nation>
    <Yearofbirth>1994</Yearofbirth>
  </Competitor>
</CC_ranked>
</CC_team>
</CC_ranked>
<!-- ... further <CC_ranked> elements omitted ... -->
</CC_classified>
</CC_race>
</Fisresults>
```

10. Document Control

Version History	Description
Version 2.0 (20.10.2012)	Update of version 1
Version 2.1 (08.02.2013)	<code><CC_raceinfo/></code> element required
Version 2.2 (18.11.2013)	Corrected notation of Laplength
Version 2.3 (20.11.2013)	Added tags in <code><CC_result></code> : <code><Arrivaltime></code> , <code><Arrivalrank></code> and <code><Arrivaldiff></code>
Version 2.4 (10.12.2013)	add file name definition
Version 2.5 (29.10.2015)	Added new IRM DQB
Version 2.6 (19.11.2016)	Document control moved to beginning of document Type mistake page 46 for Laplength
Version 2.7 (07.03.2017)	Correction XML syntax example CC_photof p. 33
Version 3.0 (07.02.2019)	Major changes Raceheader, CC_race, CC_raceinfo, Lapped = LAP, CC_resultdetails add XML description version which the software supports update section General add more examples
Version 3.1 (08.02.2019)	Removed Member from CC_raceinfo page 11
Version 3.2 (18.03.2019)	Add missing Status for each ranked competitor in team sprint result example
Version 3.3 (01.09.2019)	Fix of data type for Usedfislist, Appliedpenalty, Calculatedpenalty
Version 3.4 (01.10.2019)	Changed Sex to Gender, Ladies to Women, Sector to Description, L = Ladies to F = Female.
Version 3.5 (03.11.2020)	Add IRM NPS = Not permitted to start
Version 3.6 (14.01.2021)	Correction Runinfo description, add No attribute correction example Raceheader, Raceinfo for Course No attribute
Version 3.7 (19.01.2021)	Add description and example for Course → Style

Version History	Description
Version 3.8 (10.09.2026)	Converted the document to Markdown as the document base Moved Document Control to the end of the document Added chapter numbering Page layout changed from landscape to A4 portrait Corrected the domain of the FIS email addresses and made them links Removed the alternative alpineresults address Element reference tables regrouped into a child elements table and a separate attributes table, with value lists written at the end of the description and a line above each attributes table naming what it belongs to Corrected spelling errors Added a missing separator between two element names Replaced typographic quotes in the examples with straight quotes Removed stray spaces from inside element values in the examples Corrected malformed tags in the examples Added a missing word to the note about the examples Replaced the bare "..." omission markers in the examples with XML comments naming what is omitted Removed the sentence stating that earlier versions of the description remain valid
Version 3.9 (14.09.2026)	Updated the <code><Discipline></code> codes to the current FIS discipline codes Updated the <code><Discipline></code> values in the examples to current codes
Version 3.10 (23.09.2026)	Added <code><Heat></code> for Sprint Final and Team Sprint Final, replacing <code><Run></code> whose <code>no</code> attribute was defined as "Number of run/heat" but was used as the heat number <code><Heat></code> carries the heat number in the attribute <code>No</code> and the phase in the attribute <code>Level</code> ; child elements and values are unchanged, so <code><Run no="4" Level="quarterfinal"></code> becomes <code><Heat No="4" Level="quarterfinal"></code> <code><Run></code> is deprecated, remains documented and is kept for compatibility with earlier versions of this description Added <code><Phase></code> to <code><Raceheader></code> to state the phase a start list or result is sent for Added the attribute <code>Run</code> to <code><Type></code> of <code><Raceheader></code> to state the run a phase is sent for, to be used only if a phase is run more than once Added a start list example for a Sprint Final with heat assignment (chapter 8.2) Split the Team Sprint start list example into Team Sprint Qualification (chapter 9.2) and Team Sprint Final (chapter 9.3), the latter with phase and heat assignment Updated the Sprint Final and Team Sprint examples to <code><Heat></code> Not applied to Sprint Qualification and Team Sprint Qualification, which are not held in heats