

Explanation of the FIS Data Exchange XML Protocol

Nordic Combined

Version 2.15

14.01.2021

Written by FIS IT

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Table of content

Document Control	5
General	6
XML result transmission	6
Support	7
Structure of XML	8
<Fisresults>.....	8
<Raceheader>.....	9
<Racedate>.....	10
<NK_Race>.....	11
<NK_raceinfo_jp>.....	12
<NK_raceinfo_cc>.....	14
<Jury>.....	16
<Member>.....	16
<Judges>.....	16
<Runinfo>.....	17
<Course> (Cross-Country).....	18
<Intermediate>.....	18
<Weather>.....	19
<Statistics> (Ski jumping).....	20
<Group>.....	20
<Stats>.....	21
<Distance>.....	21
<Speed>.....	21
<Base>.....	22
<Instartlist>.....	22
<Started>.....	22
<Withresults>.....	22
<Statistics> (Cross-Country).....	23
<Entries>,<Ranked>,<DSQ>,<DQB>,<DNS>,<DNF>,<NPS>,<LAP>.....	23

Result for individual competition.....	24
<NK_classified>	24
<NK_ranked>	24
<Competitor>.....	25
<NK_result>	25
<NK_resultdetail>	26
<Jump>.....	26
<Judgesmarks>	27
<Race>	28
<Intermediate>	28
<NK_notclassified>	29
<NK_notranked>.....	29
<Competitor>.....	30
<NK_resultdetail>	30
<Jump>.....	31
<Judgesmarks>	31
<Race>	32
<Intermediate>	32
Result for team competition.....	33
<NK_classified>.....	33
<NK_ranked>	33
<Team>	34
<NK_result>	34
<NK_resultdetail>	35
<Jump>.....	35
<Race>	35
<Intermediate>.....	36
<NK_team>	37
<NK_ranked>	37
<Competitor>.....	38
<NK_resultdetail>	39
<Jump>.....	40

<Judgesmarks>	40
<Race>	41
<Intermediate>	42
<NK_notclassified>	43
<NK_notranked>.....	43
<Team>	43
<NK_resultdetail>	44
<Jump>.....	44
<Race>	44
<Intermediate>	45
<NK_team>	46
<NK_notranked>.....	46
<Competitor>.....	47
<NK_resultdetail>	47
<Jump>.....	48
<Judgesmarks>	49
<Race>	49
<Intermediate>.....	50
Example result individual competition	51
Example result team competition	62
Example start list individual competition	86
Example start list team competition	90

Document Control

Version History	Description
Version 2.0 (04.01.2013)	Update of version 1
Version 2.1 (08.02.2013)	<NK_raceinfo/> element required
Version 2.2 (05.07.2013)	added element Judges to NK_race added elements Course, Statistics_jp, Statistics_cc in NK_raceinfo added attribute run to Course in example added attribute run to Course in example corrected round attribute on Weather added Time element for Weather in example added round element "CC" for weather
Version 2.3 (10.12.2013)	add file name definition
Version 2.4 (25.06.2014)	add attribute values for Judgemarks add element details correction Bib attribute values add Bib color attribute changed values for element Training
Version 2.5 (29.10.2015)	Added new IRM's DQB
Version 2.6 (10.11.2016)	Document control moved to beginning of document Type mistake for Laplength
Version 2.7 (07.03.2017)	Correction XML syntax NK-photof
Version 2.8 (07.09.2017)	Major changes Raceheader, NK_race, NK_raceinfo_jp, NK_raceinfo_cc, Lapped = LAP, NK_resultdetails
Version 2.9 (01.12.2017)	Moved Course to Runinfo Jury, Member, Judges in NK_Raceinfo_xx
Version 2.10 (06.06.2018)	Update example start lists, removed parts of statistics
Version 2.11 (27.08.2018)	Precision team result Totaltime, Racetime
Version 2.13 (01.10.2019)	Changed L to W, Ladies to Women and Sector to Discipline, L = Ladies to F = Female
Version 2.14 (03.11.2020)	Add NPS = Not permitted to start
Version 2.15 (14.01.2021)	correction example Raceheader, Raceinfo for Course No attribute update section General

General

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

Version 1 and versions 2.x of XML description are still valid but will be deprecated and exists separated from version 3.

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 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.

XML result transmission

Results XML files must be sent by email to results@fisski.com (alpineresults@fisski.com is also valid). 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.

Support

For support requests, questions and feedbacks please contact the FIS IT department: it@fisski.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.

Structure of XML

<Fisresults>

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Raceheader	Sector	NK	Season Codex Nation Discipline Category Type Phase Eventname Place Racedate Tempunit Longunit Speedunit Windunit NK_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
	Gender	M = Men W = Women A = Mixed					
NK_race			NK_raceinfo_jp NK_raceinfo_cc NK_classified NK_notclassified	Information about the race and results			required

<Raceheader>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional								
Season				Season, ie. 2012 for June 2011 - May 2012	integer		required								
Codex				The unique identification number for each competition with the discipline (latest details can be found in the calendar section of the FIS website)	Integer		required								
Nation				The three letter FIS code for the organizing nation (latest details can be found in the calendar section of the FIS website)	string		required								
Discipline				The respective discipline to the event	string	GUL Gundersen LH GUN Gundersen NH TE Team Tsp Team Sprint MS Mass Start IN Individual SP Sprint IM Ind Mass Start TM Team Mass Start GU Gundersen HSP Hurricane SP MTS Mass Start Tsp CSP Compact Sprint QSP Sprint Quali Form HCS Hurrican Compact PEN Penalty Race	required								
Category				The FIS abbreviation for the category of competition specific to the event	string	According category provided in FIS calendar	required								
Type				Type of content	string	<table border="1"> <tr> <td>Startlist</td> <td>Startlist</td> </tr> <tr> <td>Partial</td> <td>Partial unofficial result</td> </tr> <tr> <td>Unofficial</td> <td>Unofficial result</td> </tr> <tr> <td>Official</td> <td>Official result</td> </tr> </table>	Startlist	Startlist	Partial	Partial unofficial result	Unofficial	Unofficial result	Official	Official result	required
Startlist	Startlist														
Partial	Partial unofficial result														
Unofficial	Unofficial result														
Official	Official result														
Phase				Phase of competition Attribute: use only when trial round for qualification or competition round <i>(still not used)</i>	string	T1-T5=Training 1-5 Q=Qualification PR=Provisional Round F=Final Round	optional								
Eventname				Name of Event as published in FIS calendar	string		optional								
Place				resort, town, etc. of competition venue	string		optional								
Racedate			Day Month Year	Date of race			optional								

Tempunit				Unit of the temperature	string	C = Celcius F = Fahrenheit K = Kelvin	optional
Longunit				Unit of length Remark: i.e. if 'm' is long unit intermediate points in 'km' need to be send as 'm'	string	m = Meter km = Kilometer mi = Miles in = Inch y = Yard	optional
Speedunit				Unit of speed of an athlete attempt	string	kmh = Kilometer/Hour mph = Miles/Hour ms = Meter/Second	optional
Windunit				Unit wind speed	string	ms = Meter/Second kmh = Kilometer/Hour mph = Miles/Hour kn = Knotes bft = Beaufort	optional
NK_photof				NK cross country Race contains photo finish rank will not be recalculated on FIS side		empty	optional

<Racedate>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Day				Day in numerical form: 1, 11, 21, etc.	integer		required
Month				Month in numerical form: 1, 2, 10, etc.	integer		required
Year				Year in four digits' numerical form: 2000, 2001, 2002, etc.	integer		required

<NK_Race>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
NK_raceinfo_jp			Hill Plastic Hillsize Kpoint Mvalue Gatefactor Windfactorhead Windfactortail Nullline Secondperpoint Pointspminute Jury Member Judges Runinfo Timingby Dataprocessingby Softwarecompany Softwarename Softwareversion	Specific technical data about each Ski Jumping competition Jury, Member and Judges only need to be used at least once either in NK_raceinfo_jp or NK_raceinfo_cc			required
NK_raceinfo_cc			Jury Member Judges Runinfo Timingby Dataprocessingby Softwarecompany Softwarename Softwareversion	Specific technical data about each Cross-Country race Jury, Member and Judges only need to be used at least once either in NK_raceinfo_jp or NK_raceinfo_cc			required
NK_classified			NK_ranked	All competitors who are classified in the competition			required
NK_notclassified			NK_notranked	All competitors who are not classified in the competition			required

<NK_raceinfo_jp>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Hill				Type of Hill	string	NH Normal Hill LH Large Hill FH Flying Hill	required
Plastic				Plastic surface on hill used	string	Yes No	required
Hillsize				Size of the jumping hill	integer		required
Kpoint				K-point of the jumping hill	integer		required
Mvalue				Meter value	integer		required
Gatefactor				Gate factor	decimal		optional, required for OWG, WSC, WC, COC
Windfactorhead				Wind factor head	decimal		optional, required for OWG, WSC, WC, COC
Windfactortail				Wind factor tail	decimal		optional, required for OWG, WSC, WC, COC
Nullline				Null line	integer		optional
Secondperpoint				Seconds per point	string		optional
Pointsperssecond				Points per minute	string		optional
Jury	Function	For all competition required: CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN For categories WC, OWG, WSC, GP: RACEDIRECTOR RACEDIRECTORASSISTANT EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN For categories YOG, WJC: COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION	Lastname Firstname Nation	Details about the competition jury			required

		TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN For categories COC, FIS COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN For category UVS: RACEDIRECTOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN					
Member	Function	For all competition required: CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN For categories WC, OWG, WSC, GP: RACEDIRECTOR RACEDIRECTORASSISTANT EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN CHIEFOFCOURSE For categories YOG, WJC: COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN For categories COC, FIS COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN For category UVS: RACEDIRECTOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTAN	Lastname Firstname Nation	Details about the competition jury member (competition management)			optional

Judges (Ski jumping only)	Function	A, B, C, D, E, SC (Start control)	JudgeID Lastname Firstname Nation	Details about the competition Judges			optional
Runinfo	No	Run number (1,2)	Starttime Endtime Weather Statistics	Information about the round			required
Timingby				Timing or Scoring by company	string		optional
Dataprocessingby				Data processing by company	string		optional
Softwarecompany				Name of software company	string		optional
Softwarename				Name of timing/scoring software	string		optional
Softwareversion				Version of the timing/scoring software	string		optional

<NK_raceinfo_cc>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Jury	Function	For all competition required: CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT For categories WC, OWG, WSC, GP: RACEDIRECTOR RACEDIRECTORASSISTANT EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT For categories YOG, WJC: COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT For categories COC, FIS COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT	Lastname Firstname Nation	Details about the competition jury			required

		For category UVS: RACEDIRECTOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT				
Member	Function	For all competition required: CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT For categories WC, OWG, WSC, GP: RACEDIRECTOR RACEDIRECTORASSISTANT EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT CHIEFOFCOURSE For categories YOG, WJC: COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT For categories COC, FIS COORDINATOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT For category UVS: RACEDIRECTOR EQUIPMENTCONTROL CHIEFCOMPETITION TECHNICALDELEGATE TECHNICALDELEGATEASSISTANT	Lastname Firstname Nation	Details about the competition jury member (competition management)		optional
Judges (Ski jumping only)	Function	A, B, C, D, E, SC (Start control)	JudgeID Lastname Firstname Nation	Details about the competition Judges		optional
Runinfo	No	CC	Course Starttime Endtime Weather Statistics	Information about the run		required
Timingby				Timing or Scoring by company	string	optional
Dataprocessingby				Data processing by company	string	optional

Softwarecompany				Name of software company	string		optional
Softwarename				Name of timing/scoring software	string		optional
Softwareversion				Version of the timing/scoring software	string		optional

<Jury>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	Required/optional
Lastname				Last name jury member	string		required
Firstname				First name jury member	string		required
Nation				Nation (FIS abbreviation) of jury member	string		required

<Member>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	Required/optional
Lastname				Last name jury member	string		required
Firstname				First name jury member	string		required
Nation				Nation (FIS abbreviation) of jury member	string		required

<Judges>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	Required/optional
JudgeID				Judge ID	string		optional
Lastname				Last name of judge	string		required
Firstname				First name of judge	string		required
Nation				Nation (FIS abbreviation) of judge	string		required

<Runinfo>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	Required/optional
Course (Cross-Country)	No	Course number	Name HD MC TC Style Laplength Lapnumber Intermediate				optional
Starttime				Start time of the round		Time in 24h, HH:MM	required
Endtime				End time of the round		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 (Ski jumping)			Base Group Instartlist Started Withresults				optional
Statistics (Cross-Country)			Entries Ranked DSQ DQB DNS DNF NPS LAP				optional

<Course> (Cross-Country)

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Name				Name of the course/lap	string		optional
HD				Height difference of the course	integer		optional
MC				Maximum climb of the course	integer		optional
TC				Total climb of the course	integer		optional
Style				Skiing technique	String	F = Free C = Classic	optional
Laplength				Length of lap	integer		optional
Lapnumber				Number of laps	integer		optional
Intermediate	i	Order number of intermediate point, counts up over all courses 1-98 = intermediate points 99 = Finish	Distance	Information about intermediate timing points with order and type			optional
	type	time speed					

<Intermediate>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Distance				Distance in long unit or name of intermediate point i	string		Optional

<Weather>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	Required/optional
Starttime				Start time of the round	string		required
Endtime				End time of the round	string		optional
Place				Place of weather evaluation	string		required
Weather				Description of weather conditions	string		required
Snow				Description of snow conditions	string		optional
Temperatureair				Air Temperature	decimal		required
Temperaturesnow				Snow Temperature	decimal		optional
Humidity				Air humidity	integer		optional
Maxwindspeed				Max. wind speed	decimal		optional
Minwindspeed				Min. wind speed	decimal		optional
Avgwindspeed				Avg. wind speed	decimal		optional
Winddirection				Wind direction	string	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

<Statistics> (Ski jumping)

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Group	no	Number of a group	Stats	Competition group			optional
Base			Wind Gate Length	Base values for a competition round			optional
Instartlist			Competitors Nations	Numbers of competitors and nation on start list in a round			optional
Started			Competitors Nations	Numbers of competitors and nation on started in a round			optional
Withresults			Competitors Nations	Numbers of competitors and nation with results in a round			optional

<Group>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Stats	no	Number of statistic within a group/round	Gate Diff Athletes Falls Distance Speed	Statistic values of a competition round			optional

<Stats>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Gate				Number of gate	string		optional
Diff				Gate difference	decimal		optional
Athletes				Number of athletes in a group or gate progression	integer		optional
Falls				Number of falls within a group or gate progression	integer		optional
Distance			Max Min Avg	Max, min, avg. distances of a group or gate progression			optional
Speed			Max Min Avg	Max, min, avg speed of a group or gate progression			optional

<Distance>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Max				Max distances of a group or gate progression	decimal		optional
Min				min distances of a group or gate progression	decimal		optional
Avg				Avg. distances of a group or gate progression	decimal		optional

<Speed>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Max				Max speed of a group or gate progression	decimal		optional
Min				min speed of a group or gate progression	decimal		optional
Avg				avg speed of a group or gate progression	decimal		optional

<Base>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Wind				Base wind value for a round	decimal		optional
Gate				Base gate number for a round	string		optional
Length				Base length values for a round	decimal		optional

<Instartlist>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Competitors				Numbers of competitors on start list in a round	integer		optional
Nations				Numbers of nation on start list in a round	integer		optional

<Started>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Competitors				Numbers of competitors on start list in a round	integer		optional
Nations				Numbers of nation on start list in a round	integer		optional

<Withresults>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Competitors				Numbers of competitors on start list in a round	integer		optional
Nations				Numbers of nation on start list in a round	integer		optional

<Statistics> (Cross-Country)

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Entries			Competitors Nations	Numbers of competitors and nation entered to competition in a round			optional
Ranked			Competitors Nations	Numbers of competitors and nation with results in a round			optional
DSQ			Competitors Nations	Numbers of competitors and nation disqualified in a round			optional
DQB			Competitors Nations	Numbers of competitors and nation disqualified in a round			optional
DNS			Competitors Nations	Numbers of competitors and nation did not start in a round			optional
DNF			Competitors Nations	Numbers of competitors and nation did not finish in a round			optional
NPS			Competitors Nations	Numbers of competitors and nation not permitted to start in a round			optional
LAP			Competitors Nations	Numbers of competitors and nation lapped in Cross-Country race			optional

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Competitors				Numbers of competitors on start list in a round	integer		optional
Nations				Numbers of nation on start list in a round	integer		optional

Result for individual competition

<NK_classified>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
NK_ranked	Status	QLF = completed the race	Rank Order Bib Competitor NK_result NK_resultdetail	Details of each competitor's results			required
	Status2	LAP = Lapped					

<NK_ranked>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Rank	Pf	y		The competitor's position in the race (If the rank was decided by a photo finish then with attribute)	integer		required
Order				The competitor's order position in the start list	integer		required
Bib	Color	yellow red green blue white black		The competitor's starting bib from the first run	integer		required
Competitor			Fiscode Lastname Firstname Gender Nation Yearofbirth Clubname	Details of a competitor			required
NK_result			Totaltime Diff Jumppoints Jumprank Timediff Penaltyloops Racetime Racerank	Details of the result of the competitor			required
NK_resultdetail			Jump Race	Details of each jump and race result			optional

<Competitor>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Fiscode				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.	string		required
Lastname				The competitor's last name as it appears on the FIS list	string		required
Firstname				The competitor's first name as it appears on the FIS list	string		required
Gender				Gender of competitor	string	M = Male F = Female	optional
Nation				The competitor's nation using the FIS abbreviation	string		required
Yearofbirth				The competitor's year of birth as it appears on the FIS list (ie. 1987)	integer		optional
Clubname				Name of club of competitor	String		optional

<NK_result>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Totaltime				Total time of race incl. time penalties, start behind time	string		required
Diff				Behind time difference to winner time	string		optional
Jumppoints				Total points for jump	decimal		optional
Jumprank				Jump rank	integer		optional
Starttime				Start time of competitor (individual races)	string		optional
Timediff	wave	y		Start behind time or time difference for Cross Country race, attribute wave time	string		optional
Penaltyloops				Number of penalty loops for Cross Country race	integer		optional
Racetime				Cross country race time, netto time	string		optional
Racerank				Cross country race rank	integer		optional

<NK_resultdetail>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Jump	no	number of jump (round)	Distance Distancepoints Rank Speed Judgements Gate Gatepoints Wind Windpoints Pointsdescend	Jump details			optional
	Status	IRF Inrunfall DNS did not start in 2 nd round DSQ disqualified in 2 nd round NPS not permitted to start NPS2 not permitted to start 2 nd round					
Race			Intermediate	Cross-Country race details			optional

<Jump>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Distance				jump distance	string	Distance value	optional
Distancepoints				distance points	decimal		optional
Speed				Speed on jump off	decimal		optional
Jugdesmarks			Totalpoints A B C D E	judge points for the jump			optional
Gate				gate number	integer		optional
Gatepoints				gate compensation points	decimal		optional
Wind				wind speed	decimal		optional
Windpoints				wind compensation points	decimal		optional
Pointsdescend				Jump (round) total points	decimal		required
Rank				Rank of jump round	integer		required

<Judgesmarks>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Totalpoints				Total points from all counted judge marks	decimal		optional
A	counted	yes no		Point of Judge A	decimal		optional
B	counted	yes no		Point of Judge B	decimal		optional
C	counted	yes no		Point of Judge C	decimal		optional
D	counted	yes no		Point of Judge D	decimal		optional
E	counted	yes no		Point of Judge E	decimal		optional

<Race>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Intermediate	i	Number of intermediate point	Time Diff Rank Sectortime Sectordiff Sectorrank Speed	Cross-Country race details			optional

<Intermediate>

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Time				Time on intermediate point i	string		required
Diff				Time difference on intermediate point i	string		optional
Rank				Rank on intermediate point i	integer		required
Sectortime				Time of the last sector (last intermediate point to current intermediate point)	string		optional
Sectordiff				Time difference of a sector	string		optional
Sectorrank				Rank of the last sector	integer		optional

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Speed				Speed on intermediate point i	decimal		required
Diff				Speed difference on intermediate point i	decimal		optional
Rank				Rank on intermediate point i	integer		required

<NK_notclassified>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
NK_notranked	Status	DNS = Did not start DSQ = Disqualified DNF = Did not finish DNQ = Did not qualify DPO = Doping offense NPS = Not permitted to start DQB = Disqualification for unsportsmanlike behavior	Bib Competitor NK_resultdetails Reason	Details of each competitor's results			required

<NK_notranked>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Bib	Color	yellow red green blue white black		The competitor's starting bib from the first run	string		required
Competitor			Fiscode Lastname Firstname Gender Nation Yearofbirth Clubname	Details of a competitor			required
NK_resultdetail			Jump Race	Details of each jump and race result			optional
Reason				Reference to ICR rule number for disqualification offence	string		optional

<Competitor>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Fiscode				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 organizers by the FIS Office in writing.	string		required
Lastname				The competitor's last name as it appears on the FIS list	string		required
Firstname				The competitor's first name as it appears on the FIS list	string		required
Gender				Gender of competitor	string	M = Male F = Female	optional
Nation				The competitor's nation using the FIS abbreviation	string		required
Yearofbirth				The competitor's year of birth as it appears on the FIS list (ie. 1987)	integer		optional
Clubname				Name of club of competitor	string		optional

<NK_resultdetail>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Jump	no	number of jump (round)	Distance Distancepoints Rank Speed Judgemarks Gate Gatepoints Wind Windpoints Pointsdescend	Jump details			optional
	Status	IRF Inrunfall DNS did not start in 2 nd round DSQ disqualified in 2 nd round NPS not permitted to start NPS2 not permitted to start 2 nd round					
Race			Intermediate	Cross-Country race details			optional

<Jump>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Distance				jump distance	string	Distance value	optional
Distancepoints				distance points	decimal		optional
Speed				Speed on jump off	decimal		optional
Jugdesmarks			Totalpoints A B C D E	judge points for the jump			optional
Gate				gate number	integer		optional
Gatepoints				gate compensation points	decimal		optional
Wind				wind speed	decimal		optional
Windpoints				wind compensation points	decimal		optional
Pointsdescend				Jump (round) total points	decimal		required
Rank				Rank of jump round	integer		required

<Judgesmarks>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Totalpoints				Total points from all counted judge marks	decimal		optional
A	counted	yes no		Point of Judge A	decimal		optional
B	counted	yes no		Point of Judge B	decimal		optional
C	counted	yes no		Point of Judge C	decimal		optional
D	counted	yes no		Point of Judge D	decimal		optional
E	counted	yes no		Point of Judge E	decimal		optional

<Race>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Intermediate	i	Number of intermediate point	Time Diff Rank Sectortime Sectordiff Sectorrank Speed	Cross-Country race details			optional

<Intermediate>

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Time				Time on intermediate point i	string		required
Diff				Time difference on intermediate point i	string		optional
Rank				Rank on intermediate point i	integer		required
Sectortime				Time of the last sector (last intermediate point to current intermediate point)	string		optional
Sectordiff				Time difference of a sector	string		optional
Sectorrank				Rank of the last sector	integer		optional

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Speed				Speed on intermediate point i	decimal		required
Diff				Speed difference on intermediate point i	decimal		optional
Rank				Rank on intermediate point i	integer		required

Result for team competition

<NK_classified>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
NK_ranked	Status	QLF = completed the race	Rank Order Bib Team NK_result NK_team NK_resultdetail	Details of each teams results			required
	Status2	LAP = Lapped					

<NK_ranked>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Rank	Pf	y		The teams position in the competition (If the rank was decided by a photo finish then with attribute)	integer		required
Order				The team order position in the start list	integer		required
Bib	Color	yellow red green blue white black		The teams starting bib from the first run color = team BIB color	string		required
Team			Fiscode Teamname Nation	Details of a team			required
NK_result			Totaltime Diff Jumppoints Jumprank Timediff Penaltyloops Racetime Racerank	Details of the result of the competitor			required
NK_resultdetail			Jump Intermediate	Details of each jump and race result			optional
NK_team			NK_ranked	Detailed result of each competitor of a team			optional

<Team>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Fiscode				The teams 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.	string		required
Teamname				The team name as it appears on the FIS list	string		required
Nation				The team nation using the FIS abbreviation	string		required

<NK_result>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Totaltime				Total time of race incl. time penalties, start behind time	string		required
Diff				Behind time difference to winner time	string		optional
Jumppoints				Total points for jump	decimal		optional
Jumprank				Jump rank	integer		optional
Timediff	wave	y		Start behind time or time difference for Cross Country race, attribute wave time	string		optional
Penaltyloops				Number of penalty loops for Cross Country race	integer		optional
Racetime				Cross country race time, netto time	string		optional
Racerank				Cross country race rank	integer		optional

<NK_resultdetail>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Jump	No	number of jump (round)	Rank Pointsdescend	details of team result			optional
Race			Intermediate	Cross-Country race details			optional

<Jump>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	Required/ optional
Rank				Rank of jump round	integer		required
Pointsdescend				Jump (round) total points	decimal		required

<Race>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Intermediate	i	Number of intermediate point	Time Diff Rank Sectortime Sectordiff Sectorrank	Cross-Country race details			optional

<Intermediate>

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Time				Time on intermediate point i	string		required
Diff				Time difference on intermediate point i	string		optional
Rank				Rank on intermediate point i	integer		required
Sectortime				Time of the last sector (last intermediate point to current intermediate point)	string		optional
Sectordiff				Time difference of a sector	string		optional
Sectorrank				Rank of the last sector	integer		optional

<NK_team>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
<NK_ranked>	Status	QLF = completed the race	Rank Bib Competitor NK_resultdetail	Details of each competitor's results			optional
	Status2	LAP = Lapped					

<NK_ranked>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Rank				The team position in the race	integer		required
Bib	Color	red green yellow blue		The team starting bib from the first run Color = leg color of the BIB	string		required
	Leg	Number of leg					
Competitor			Fiscode Lastname Firstname Gender Nation Yearofbirth Clubname	Details of a competitor of a team			required
NK_resultdetail			Jump Race	Details of each competitor result			optional

<Competitor>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Fiscode				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 organizers by the FIS Office in writing.	string		required
Lastname				The competitor's last name as it appears on the FIS list	string		required
Firstname				The competitor's first name as it appears on the FIS list	string		required
Gender				Gender of competitor	string	M = Male F = Female	optional
Nation				The competitor's nation using the FIS abbreviation	string		required
Yearofbirth				The competitor's year of birth as it appears on the FIS list (ie. 1987)	integer		optional
Clubname				Name of club of competitor	String		optional

<NK_resultdetail>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Jump	no	number of jump (round)	Distance Distancepoints Rank Speed Judgemarks Gate	Jump details			optional
	Status	IRF Inrunfall DNS did not start in 2 nd round DSQ disqualified in 2 nd round NPS not permitted to start NPS2 not permitted to start 2 nd round	Gatepoints Wind Windpoints Pointsdescend				
Race			Intermediate	Cross-Country race details			optional

<Jump>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Distance				jump distance	string	Distance value	optional
Distancepoints				distance points	decimal		optional
Speed				Speed on jump off	decimal		optional
Jugdesmarks			Totalpoints A B C D E	judge points for the jump			optional
Gate				gate number	integer		optional
Gatepoints				gate compensation points	decimal		optional
Wind				wind speed	decimal		optional
Windpoints				wind compensation points	decimal		optional
Pointsdescend				Jump (round) total points	decimal		required
Rank				Rank of jump round	integer		required

<Judgesmarks>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Totalpoints				Total points from all counted judge marks	decimal		required
A	counted	yes no		Point of Judge A	decimal		required
B	counted	yes no		Point of Judge B	decimal		required
C	counted	yes no		Point of Judge C	decimal		required
D	counted	yes no		Point of Judge D	decimal		required
E	counted	yes no		Point of Judge E	decimal		required

<Race>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Intermediate	i	Number of intermediate point	Time Diff Rank Speed	Cross-Country race details			optional

<Intermediate>

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Time				Time of the leg on intermediate point i	string		required
Diff				Time difference of the leg on intermediate point i	string		optional
Rank				Rank of the leg on intermediate point i	integer		required

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Speed				Speed on intermediate point i in speed unit	decimal		required
Diff				Speed difference on intermediate point i	decimal		optional
Rank				Speed rank on intermediate point i	integer		required

<NK_notclassified>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
NK_notranked	Status	DNS = Did not start DSQ = Disqualified DNF = Did not finish DNQ = Did not qualify DPO = Doping offense NPS = Not permitted to start DQB = Disqualification for unsportsmanlike behavior	Bib Team NK_resultdetails NK_team Reason	Details of each team result			required

<NK_notranked>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Bib				The competitor's starting bib from the first run	string		required
Team			Fiscode Teamname Nation	Details of a team			required
NK_resultdetail			Jump Intermediate	Details of each jump and race result			optional
NK_team			NK_notranked	Detailed result of each competitor of a team			optional
Reason				Reference to ICR rule number for disqualification offence	string		optional

<Team>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Fiscode				The teams 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.	string		required
Teamname				The team name as it appears on the FIS list	string		required

Nation				The team nation using the FIS abbreviation	string		required
--------	--	--	--	--	--------	--	----------

<NK_resultdetail>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Jump	No	number of jump (round)	Rank Pointsdescend	details of team result			optional
Race			Intermediate	Cross-Country race details			optional
Intermediate	i	Number of intermediate point	Time Diff Rank	i.e. intermediate times for each exchange/leg			optional

<Jump>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Pointsdescend				Jump (round) total points	decimal		required
Rank				Rank of jump round	integer		required

<Race>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Intermediate	i	Number of intermediate point	Time Diff Rank Sectortime Sectordiff Sectorrank	Cross-Country race details			optional

<Intermediate>

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Time				Time on intermediate point i	string		required
Diff				Time difference on intermediate point i	string		optional
Rank				Rank on intermediate point i	integer		required
Sectortime				Time of the last sector (last intermediate point to current intermediate point)	string		optional
Sectordiff				Time difference of a sector	string		optional
Sectorrank				Rank of the last sector	integer		optional

<NK_team>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
<NK_notranked>	Status	QLF = completed the race	Rank Bib Competitor NK_resultdetail	Details of each competitor's results			optional

<NK_notranked>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Rank				The team position in the race	integer		required
Bib	Color	r=red g=green y=yellow b=blue		The team starting bib from the first run	string		required
	Leg	Number of leg					
Competitor			Fiscode Lastname Firstname Gender Nation Yearofbirth Clubname	Details of a competitor of a team			required
NK_resultdetail			Jump Intermediate	Details of each competitor result			optional

<Competitor>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Fiscode				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.	string		required
Lastname				The competitor's last name as it appears on the FIS list	string		required
Firstname				The competitor's first name as it appears on the FIS list	string		required
Gender				Gender of competitor	string	M = Male F = Female	optional
Nation				The competitor's nation using the FIS abbreviation	string		required
Yearofbirth				The competitor's year of birth as it appears on the FIS list (ie. 1987)	integer		optional
Clubname				Name of club of competitor	String		optional

<NK_resultdetail>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Jump	no	number of jump (round)	Distance Distancepoints Rank Speed Judgemarks	Jump details			optional
	Status	IRF Inrunfall DNS did not start in 2 nd round DSQ disqualified in 2 nd round NPS not permitted to start NPS2 not permitted to start 2 nd round	Gate Gatepoints Wind Windpoints Pointsdescend				
Race			Intermediate	Cross-Country race details			

<Jump>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/optional
Distance				jump distance	string	Distance value	optional
Distancepoints				distance points	decimal		optional
Speed				Speed on jump off	decimal		optional
Jugdesmarks			Totalpoints A B C D E	judge points for the jump			optional
Gate				gate number	integer		optional
Gatepoints				gate compensation points	decimal		optional
Wind				wind speed	decimal		optional
Windpoints				wind compensation points	decimal		optional
Pointsdescend				Jump (round) total points	decimal		required
Rank				Rank of jump round	integer		required

<Judgesmarks>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Totalpoints				Total points from all counted judge marks	decimal		required
A	counted	yes no		Point of Judge A	decimal		required
B	counted	yes no		Point of Judge B	decimal		required
C	counted	yes no		Point of Judge C	decimal		required
D	counted	yes no		Point of Judge D	decimal		required
E	counted	yes no		Point of Judge E	decimal		required

<Race>

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Intermediate	i	Number of intermediate point	Time Diff Rank Speed	Cross-Country race details			optional

<Intermediate>

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

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Time				Time of the leg on intermediate point i	string		required
Diff				Time difference of the leg on intermediate point i	string		optional
Rank				Rank of the leg on intermediate point i	integer		required

Element	Attributes	Attribute values	Child elements	Description	Data type	Values	required/ optional
Speed				Speed on intermediate point i in speed unit	decimal		required
Diff				Speed difference on intermediate point i	decimal		optional
Rank				Rank on intermediate point i	integer		required

Example result individual competition

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        <Lastname>PEKK</Lastname>
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  </NK_race>
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  <Firstname>Toni</Firstname>
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</Jury>
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  <Firstname>Jan Rune</Firstname>
  <Nation>FIS</Nation>
</Jury>
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  <Firstname>Martin</Firstname>
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  <nation>SLO</nation>
</Judges>
<Judges Function="E">
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Example result team competition

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```

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    <Nation>GBR</Nation>
  </Team>
</NK_team>
  <NK_notranked Status="DSQ">
    <Bib Color="red" Leg="1">151</Bib>
    <Competitor>
      <Fiscode>54654654</Fiscode>
      <Lastname>White</Lastname>
      <Firstname>Dave</Firstname>
      <Gender>M</Gender>
      <Nation>GBR</Nation>
      <Yearofbirth>1983</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_notranked>
  <NK_notranked Status="DSQ">
    <Bib Color="green" Leg="2">152</Bib>
    <Competitor>
      <Fiscode>21212</Fiscode>
      <Lastname>Black</Lastname>
      <Firstname>John</Firstname>
      <Gender>M</Gender>
      <Nation>GBR</Nation>
      <Yearofbirth>1981</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_notranked>

```

```

<NK_notranked Status="DSQ">
  <Bib Color="yellow" Leg="3">153</Bib>
  <Competitor>
    <Fiscode>23233</Fiscode>
    <Lastname>Cumber</Lastname>
    <Firstname>Lewis</Firstname>
    <Gender>M</Gender>
    <Nation>GBR</Nation>
    <Yearofbirth>1981</Yearofbirth>
    <Clubname>Skiclub XY</Clubname>
  </Competitor>
</NK_notranked>
<NK_notranked Status="DSQ">
  <Bib Color="blue" Leg="4">154</Bib>
  <Competitor>
    <Fiscode>78787</Fiscode>
    <Lastname>Cullum</Lastname>
    <Firstname>David</Firstname>
    <Gender>M </Gender>
    <Nation>GBR</Nation>
    <Yearofbirth>1981</Yearofbirth>
    <Clubname>Skiclub XY</Clubname>
  </Competitor>
</NK_notranked>
</NK_team>
<Reason>ICR 3.4.2</Reason>
</NK_notranked>
</NK_notclassified>
</NK_race>
</Fisresults>

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Example start list individual competition

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<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="NK" Gender="M">
    <Season>2017</Season>
    <Codex>3945</Codex>
    <Nation>SLO</Nation>
    <Discipline>GU</Discipline>
    <Category>WC</Category>
    <Type>Startlist</Type>
    <Phase>1</Phase>
    <Racedate>
      <Day>26</Day>
      <Month>3</Month>
      <Year>2017</Year>
    </Racedate>
    <Eventname>FIS Nordic Combined World Cup</Eventname>
    <Place>Planica</Place>
    <Tempunit>C</Tempunit>
    <Longunit>m</Longunit>
    <Speedunit>kmh</Speedunit>
    <Windunit>ms</Windunit>
  </Raceheader>
  <NK_race>
    <NK_raceinfo_jp>
      <Hill>LH</Hill>
      <Plastic>No</Plastic>
      <Hillsize>140</Hillsize>
      <Kpoint>125</Kpoint>
      <Mvalue>1.5</Mvalue>
      <Gatefactor>8.10</Gatefactor>
      <Windfactorhead>14.40</Windfactorhead>
      <Windfactortail>17.42</Windfactortail>
      <Secondperpoint>4.0</Secondperpoint>
      <Pointsperminute>15</Pointsperminute>
      <Jury Function="RACEDIRECTOR">
        <Lastname>OTTESEN</Lastname>
        <Firstname>Lasse</Firstname>
        <nation>FIS</nation>
      </Jury>
      <Jury Function="CHIEFCOMPETITION">
        <Lastname>PEKK</Lastname>
        <Firstname>Teet</Firstname>
        <Nation>EST</Nation>
      </Jury>
      <Jury Function="TECHNICALDELEGATE">

```

```
<Lastname>GUGGENMOOS</Lastname>
<Firstname>Toni</Firstname>
<Nation>GER</Nation>
</Jury>
<Jury Function="TECHNICALDELEGATEASSISTANT">
  <Lastname>GRAVE</Lastname>
  <Firstname>Jan Rune</Firstname>
  <Nation>FIS</Nation>
</Jury>
<Member Function="EQUIPMENTCONTROL">
  <Lastname>KRAUS</Lastname>
  <Firstname>Guntram</Firstname>
  <Nation>GER</Nation>
</Member>
<Judges Function="A">
  <Lastname>Kathol</Lastname>
  <Firstname>Christian</Firstname>
  <nation>AUT</nation>
</Judges>
<Judges Function="B">
  <Lastname>Kumagai</Lastname>
  <Firstname>Takashi</Firstname>
  <nation>JPN</nation>
</Judges>
<Judges Function="C">
  <Lastname>Roeninggen</Lastname>
  <Firstname>Martin</Firstname>
  <nation>NOR</nation>
</Judges>
<Judges Function="D">
  <Lastname>Kern</Lastname>
  <Firstname>Milos</Firstname>
  <nation>SLO</nation>
</Judges>
<Judges Function="E">
  <Lastname>Frak</Lastname>
  <Firstname>Vladimir</Firstname>
  <nation>SVK</nation>
</Judges>
<Runinfo No="1">
  <Starttime>10:00</Starttime>
  <Endtime>11:10</Endtime>
  <Weather>
    <Starttime>09:50</Starttime>
    <Endtime>11:10</Endtime>
    <Place>TakeOff</Place>
    <Weather>cloudy</Weather>
    <Temperatureair>4.1</Temperatureair>
```

```

    <Temperaturesnow>-1.9</Temperaturesnow>
    <Humidity>88</Humidity>
    <Maxwindspeed>0.87</Maxwindspeed>
    <Minwindspeed>0.17</Minwindspeed>
    <Avgwindspeed>0.26</Avgwindspeed>
    <Winddirection>NE</Winddirection>
  </Weather>
  <Statistics>
    <Base>
      <Wind>0.00</Wind>
      <Gate>10</Gate>
      <Length>108.02</Length>
    </Base>
    <Instartlist>
      <Competitors>50</Competitors>
      <Nations>10</Nations>
    </Instartlist>
  </Statistics>
</Runinfo>
<Timingby>Swiss Timing - ST Sportservice GmbH</Timingby>
<Dataprocessingby>Swiss Timing - ST Sportservice GmbH</Dataprocessingby>
<Softwarecompany>Swiss Timing - ST Sportservice GmbH</Softwarecompany>
<Softwarename>Skiman</Softwarename>
<Softwareversion>4.3.1.0</Softwareversion>
</NK_raceinfo_jp>
</NK_raceinfo_cc>
  <Runinfo No="CC">
    <Course No="1">
      <Name>Kilparata race course</Name>
      <HD>45</HD>
      <MC>75</MC>
      <TC>265</TC>
      <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>
    </Runinfo>
    <Timingby>Swiss Timing - ST Sportservice GmbH</Timingby>
    <Dataprocessingby>Swiss Timing - ST Sportservice GmbH</Dataprocessingby>
    <Softwarecompany>Siwidata</Softwarecompany>
    <Softwareversion>6.8.9</Softwareversion>
    <Softwareversion>6.8.9</Softwareversion>
</NK_raceinfo_cc>
<NK_classified>
    <NK_ranked Status="QLF">
        <Order>1</Order>
        <Bib>1</Bib>
        <Competitor>
            <Fiscode>54456</Fiscode>
            <Lastname>Koch</Lastname>
            <Firstname>Martin</Firstname>
            <Gender>M</Gender>
            <Nation>AUT</Nation>
            <Yearofbirth>1982</Yearofbirth>
            <Clubname>Skiclub XY</Clubname>
        </Competitor>
    </NK_ranked>
    <NK_ranked Status="QLF">
        <Order>2</Order>
        <Bib>2</Bib>
        <Competitor>
            <Fiscode>2067</Fiscode>
            <Lastname>Ammann</Lastname>
            <Firstname>Simon</Firstname>
            <Gender>M</Gender>
            <Nation>SUI</Nation>
            <Yearofbirth>1981</Yearofbirth>
            <Clubname>Skiclub XY</Clubname>
        </Competitor>
    </NK_ranked>
    ...
</NK_classified>
</NK_race>
</Fisresults>

```

Example start list team competition

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<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="NK" Gender="M">
    <Season>2011</Season>
    <Codex>9971</Codex>
    <Nation>FIN</Nation>
    <Discipline>TE</Discipline>
    <Category>WC</Category>
    <Type>Startlist</Type>
    <Training></Training>
    <Racedate>
      <Day>20</Day>
      <Month>11</Month>
      <Year>2010</Year>
    </Racedate>
    <Place>Kuusamo</Place>
    <Eventname>FIS WORLD CUP NORDIC COMBINED Team NH HS100/10.0 K</Eventname>
    <Phase>1</Phase>
    <Tempunit>C</Tempunit>
    <Longunit>m</Longunit>
    <Speedunit>kmh</Speedunit>
    <Windunit>ms</Windunit>
  </Raceheader>
  <NK_race>
    <NK_raceinfo_jp>
      <Hill>LH</Hill>
      <Plastic>No</Plastic>
      <Hillsize>140</Hillsize>
      <Kpoint>125</Kpoint>
      <Mvalue>1.5</Mvalue>
      <Gatefactor>8.10</Gatefactor>
      <Windfactorhead>14.40</Windfactorhead>
      <Windfactortail>17.42</Windfactortail>
      <Secondperpoint>1.333333</Secondperpoint>
      <Pointsperminute>45</Pointsperminute>
      <Jury Function="RACEDIRECTOR">
        <Lastname>OTTESEN</Lastname>
        <Firstname>Lasse</Firstname>
        <nation>FIS</nation>
      </Jury>
      <Jury Function="CHIEFCOMPETITION">
        <Lastname>PEKK</Lastname>
        <Firstname>Teet</Firstname>
        <Nation>EST</Nation>
      </Jury>
    </NK_raceinfo_jp>
  </NK_race>
</Fisresults>
  
```

```

<Jury Function="TECHNICALDELEGATE">
  <Lastname>GUGGENMOOS</Lastname>
  <Firstname>Toni</Firstname>
  <Nation>GER</Nation>
</Jury>
<Jury Function="TECHNICALDELEGATEASSISTANT">
  <Lastname>GRAVE</Lastname>
  <Firstname>Jan Rune</Firstname>
  <Nation>FIS</Nation>
</Jury>
<Member Function="EQUIPMENTCONTROL">
  <Lastname>KRAUS</Lastname>
  <Firstname>Guntram</Firstname>
  <Nation>GER</Nation>
</Member>
<Judges Function="A">
  <Lastname>Kathol</Lastname>
  <Firstname>Christian</Firstname>
  <nation>AUT</nation>
</Judges>
<Judges Function="B">
  <Lastname>Kumagai</Lastname>
  <Firstname>Takashi</Firstname>
  <nation>JPN</nation>
</Judges>
<Judges Function="C">
  <Lastname>Roeningen</Lastname>
  <Firstname>Martin</Firstname>
  <nation>NOR</nation>
</Judges>
<Judges Function="D">
  <Lastname>Kern</Lastname>
  <Firstname>Milos</Firstname>
  <nation>SLO</nation>
</Judges>
<Judges Function="E">
  <Lastname>Frak</Lastname>
  <Firstname>Vladimir</Firstname>
  <nation>SVK</nation>
</Judges>
<Runinfo No="1">
  <Starttime>10:00</Starttime>
  <Endtime>11:10</Endtime>
  <Weather>
    <Starttime>09:50</Starttime>
    <Endtime>11:10</Endtime>
    <Place>TakeOff</Place>
    <Weather>cloudy</Weather>
  </Weather>

```

```

    <Temperatureair>4.1</Temperatureair>
    <Temperaturesnow>-1.9</Temperaturesnow>
    <Humidity>88</Humidity>
    <Maxwindspeed>0.87</Maxwindspeed>
    <Minwindspeed>0.17</Minwindspeed>
    <Avgwindspeed>0.26</Avgwindspeed>
    <Winddirection>NE</Winddirection>
  </Weather>
  <Statistics>
    <Base>
      <Wind>0.00</Wind>
      <Gate>10</Gate>
      <Length>108.02</Length>
    </Base>
    <Instartlist>
      <Competitors>50</Competitors>
      <Nations>10</Nations>
    </Instartlist>
  </Statistics>
</Runinfo>
<Timingby>Swiss Timing - ST Sportservice GmbH</Timingby>
<Dataprocessingby>Swiss Timing - ST Sportservice GmbH</Dataprocessingby>
<Softwarecompany>Swiss Timing - ST Sportservice GmbH</Softwarecompany>
<Softwareversion>4.3.1.0</Softwareversion>
<Softwareversion>4.3.1.0</Softwareversion>
</NK_raceinfo_jp>
<NK_raceinfo_cc>
  <Runinfo No="CC">
    <Course No="1">
      <Name>Kilparata race course</Name>
      <HD>45</HD>
      <MC>75</MC>
      <TC>265</TC>
      <Style>F</Style>
      <Laplenght>2500</Laplenght>
      <Lapnumber>4</Lapnumber>
      <Intermediate i="1" type="time">
        <Distance>1250</Distance>
      </Intermediate>
      <Intermediate i="2" type="time">
        <Distance>2500</Distance>
      </Intermediate>
      <Intermediate i="3" type="time">
        <Distance>3750</Distance>
      </Intermediate>
      <Intermediate i="4" type="time">
        <Distance>5000</Distance>
      </Intermediate>
    </Course>
  </Runinfo>
</NK_raceinfo_cc>

```



```

    <Competitor>
      <Fiscode>4535345</Fiscode>
      <Lastname>Reischer</Lastname>
      <Firstname>Simon</Firstname>
      <Gender>M</Gender>
      <Nation>AUT</Nation>
      <Yearofbirth>1981</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_ranked>
  <NK_ranked Status="QLF">
    <Bib Color="yellow" Leg="3">13</Bib>
    <Competitor>
      <Fiscode>54644</Fiscode>
      <Lastname>Mueller</Lastname>
      <Firstname>Rene</Firstname>
      <Gender>M</Gender>
      <Nation>AUT</Nation>
      <Yearofbirth>1981</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_ranked>
  <NK_ranked Status="QLF">
    <Bib Color="blue" Leg="4">14</Bib>
    <Competitor>
      <Fiscode>54644</Fiscode>
      <Lastname>Schneider</Lastname>
      <Firstname>Matthias</Firstname>
      <Gender>M</Gender>
      <Nation>AUT</Nation>
      <Yearofbirth>1981</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_ranked>
  </NK_team>
</NK_ranked>
...
<NK_ranked Status="QLF">
  <Order>14</Order>
  <Bib>14</Bib>
  <Team>
    <Fiscode>897987</Fiscode>
    <Teamname>Estonia</Teamname>
    <Nation>EST</Nation>
  </Team>
</NK_team>
  <NK_ranked>
    <Bib Color="red" Leg="1">141</Bib>
  </NK_ranked>

```

```

    <Competitor>
      <Fiscode>789789</Fiscode>
      <Lastname>Koch</Lastname>
      <Firstname>Martin</Firstname>
      <Gender>M</Gender>
      <Nation>EST</Nation>
      <Yearofbirth>1982</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_ranked>
  <NK_ranked Status="QLF">
    <Bib Color="green" Leg="2">142</Bib>
    <Competitor>
      <Fiscode>456456</Fiscode>
      <Lastname>Reischer</Lastname>
      <Firstname>Simon</Firstname>
      <Gender>M</Gender>
      <Nation>EST</Nation>
      <Yearofbirth>1981</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_ranked>
  <NK_ranked Status="QLF">
    <Bib Color="yellow" Leg="3">143</Bib>
    <Competitor>
      <Fiscode>456456</Fiscode>
      <Lastname>Mueller</Lastname>
      <Firstname>Rene</Firstname>
      <Gender>M</Gender>
      <Nation>EST</Nation>
      <Yearofbirth>1981</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_ranked>
  <NK_ranked Status="QLF">
    <Bib Color="blue" Leg="4">144</Bib>
    <Competitor>
      <Fiscode>54644</Fiscode>
      <Lastname>Schneider</Lastname>
      <Firstname>Matthias</Firstname>
      <Gender>M</Gender>
      <Nation>AUT</Nation>
      <Yearofbirth>1981</Yearofbirth>
      <Clubname>Skiclub XY</Clubname>
    </Competitor>
  </NK_ranked>
</NK_team>
</NK_ranked>

```

```
...  
  </NK_classified>  
</NK_race>  
</Fisresults>
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