XML PROTOCOL DESCRIPTION

Explanation of the FIS Data Exchange XML Protocol Telemark

Document

Telemark Result XML Description

Version

1.0

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1. General

This document provides an explanation of the protocol used for the FIS Data Exchange for start lists, intermediate results, results and standings.

Encoding should be in UTF8.

If optional elements are used (not empty) they should at least contain the required child elements.

Language for the content is English.

File name of the xml files: <NSA code><race codex (4 digits)>.xml
Example: 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 in ZIP file. The ZIP should only contain the result file(s) but no folders or hidden system files.

Send the results to results@fis-ski.com.

Please note that the examples do not need to be correct in terms of data but should only show the XML structure.

2. Structure of XML

2.1 `<Fisresults>`

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

Element	Child elements	Description	Required

`<Raceheader>`	`<Season>`
	`<Codex>`
	`<Nation>`
	`<Discipline>`
	`<Category>`
	`<Type>`
	`<Training>`
	`<Eventname>`
	`<Place>`
	`<Racedate>`
	`<Tempunit>`
	`<Longunit>`
	`<Speedunit>`
	`<Windunit>`
		Information to define each event. The following information is applicable to all Fis Disciplines. Each Fis Discipline has a specific race header with further technical data.	required

`<TM_race>`	`<TM_raceinfo>`
	`<TM_classified>`
	`<TM_notclassified>`
		Information about the race and results	required

Attributes of `<Raceheader>`:

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

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2.2 <Raceheader>

Element	Data	Child elements	Description	Required
<Season>	integer		Season, ie. 2012 for June 2011 - May 2012	required
<Codex>	Integer		The unique 4 digits identification number for each competition with the Fis 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 CL – Classic GS – Giant Slalom PS – Parallel Sprint SP – Sprint	required
<Category>	string		The FIS abbreviation for the category of competition specific to the Fis 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
<Training>	string		Number of training 1 2 3 ...	optional
<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	optional

Element	Data	Child elements	Description	Required
			in 'km' need to be send as 'm' m = Meter km = Kilometer mi = Miles in = Inch yd = Yard	
`<Speedunit>`	string		Unit of speed of an athlete attempt km/h = 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

Attributes of `<Type>` :

Element	Attribute	Attribute values
`<Type>`	`Run`	Number of run for which the data is sent 1 2 ...

Example of the `<Type>` element, start list of run 1:

```
<Type Run="1">Startlist</Type>
```

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 <TM_race>

Element	Child elements	Description	Required
<TM_raceinfo>	<Usedfislist> <Appliedpenalty> <Calculatedpenalty> <Fvalue> <Jury> <Member> <Runinfo> <Timingby> <Dataprocessingby> <Softwarecompany> <Softwarename> <Softwareversion>	Specific technical data about each race	required
<TM_classified>	<TM_ranked>	All competitors who are classified in the competition	required
<TM_notclassified>	<TM_notranked>	All competitors who are not classified in the competition	required

2.3.1 `<TM_raceinfo>`

Element	Data	Child elements	Description	Required
`<Usedfislist>`	string		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
`<Jury>`		`<Lastname>` `<Firstname>` `<Nation>` `<Phonenbr>` `<Email>`	Details about the competition Jury	required
`<Member>`		`<Lastname>` `<Firstname>` `<Nation>`	Details about the competition Jury member	required
`<Runinfo>`		`<Course>` `<Member>` `<Starttime>` `<Endtime>` `<Weather>`		
`<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`	TechnicalDelegate ChiefRace Referee Assistantreferee ChiefCourse Startreferee Finishreferee ChiefTiming
`<Member>`	`Function`	ChiefRace Referee Assistantreferee ChiefCourse Startreferee Finishreferee ChiefTiming
`<Runinfo>`	`No`	Number of run

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
`<Email>`	string	Email of jury member	optional
`<Phonenbr>`	string	Phone number of jury member	optional

2.3.3 `<Member>`

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

2.3.4 `<Runinfo>`

Element	Child elements	Description	Required

`<Course>`	`<Name>`
	`<Homologation>`
	`<Length>`
	`<Gates>`
	`<Turninggates>`
	`<Startelev>`
	`<Finishelev>`
	`<Coursesetter>`
	`<Forerunner>`
	`<Intermediate>`
			required

`<Weather>`	`<Time>`
	`<Place>`
	`<Weather>`
	`<Snow>`
	`<Temperatureair>`
	`<Temperaturesnow>`
	`<Humidity>`
	`<Windspeed>`
	`<Winddirection>`
			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

2.3.5 `<Course>`

Element	Data	Child elements	Description	Required
`<Name>`	string		Name of the course	optional
`<Homologation>`	string		published homologation no.	required
`<Length>`	Integer		Length of the course	optional
`<Gates>`	integer		Number of gates	required
`<Turninggates>`	integer		Number of turns	required
`<Startlelev>`	integer		Altitude of the start	required
`<Finishelev>`	integer		Altitude of the finish	required
`<Coursesetter>`		`<Lastname>` `<Firstname>` `<Nation>`	Course setter of the run	required
`<Forerunner>`		`<Lastname>` `<Firstname>` `<Nation>`	Forerunner information	optional
`<Intermediate>`		`<Distance>`	Intermediate point information	optional

Attributes of the elements above:

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

2.3.6 `<Coursesetter>`

Element	Data	Description	Required
`<Lastname>`	string	Last name course setter	required
`<Firstname>`	string	First name course setter	required
`<Nation>`	string	Nation (FIS abbreviation) course setter	required

2.3.7 `<Forerunner>`

Element	Data	Description	Required
`<Lastname>`	string	Last name forerunner	required
`<Firstname>`	string	First name forerunner	required
`<Nation>`	string	Nation (FIS abbreviation) forerunner	required

2.3.8 `<Intermediate>`

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

2.3.9 `<Weather>`

Element	Data	Description	Required
`<Time>`	string	Time of the weather recording	optional
`<Place>`	string	Place of weather recording	optional
`<Weather>`	string	Description of weather conditions	optional
`<Snow>`	string	Description of snow conditions	optional
`<Temperatureair>`	decimal	Air Temperature competition (2.5)	optional
`<Temperaturesnow>`	decimal	Snow Temperature competition (-3.5)	optional
`<Humiditystart>`	integer	Air humidity competition start (78)	optional
`<Windspeed>`	decimal	Wind speed (3.5)	optional

3. Result for individual competition

3.1 `<TM_classified>`

Element	Child elements	Description	Required

`<TM_ranked>`	`<Rank>`
	`<Order>`
	`<Bib>`
	`<Competitor>`
	`<TM_result>`
	`<TM_resultdetail>`
		Details of each competitor's results	required

Attributes of `<TM_ranked>` :

Element	Attribute	Attribute values
`<TM_ranked>`	`Status`	QLF = completed the race

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3.2 <TM_ranked>

Element	Data	Child elements	Description	Required
<Rank>	integer		The competitor's position in the race	required
<Order>	integer		The competitor's order position in the start list	required
<Bib>	string		The competitor's starting bib from the first run	required
<Competitor>		<Fiscode> <Lastname> <Firstname> <Gender> <Nation> <Yearofbirth> <Clubname>	Details of a competitor	required
<TM_result>		<Timerun1> <Timerun2> <Timerun3> <Totaltime> <Diff> <Racepoints> <Level>	Details of the result of the competitor	required
<TM_resultdetail>		<Run>	Details of run and race result	optional

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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 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 (i.e. 1987)	optional
<Clubname>	String	Name of club of competitor	optional

3.4 <TM_result>

Element	Data	Description	Required
<Timerun1>	string	Time of 1st run MM:SS:ZZ	required
<Timerun2>	string	Time of 2nd run MM:SS:ZZ	optional
<Timerun3>	string	Time of 3rd run MM:SS:ZZ	optional
<Totaltime>	string	Total time of race MM:SS:ZZ	required
<Diff>	string	Time difference on finish MM:SS:ZZ	optional
<Racepoints>	decimal	Race (FIS) points	required
<Level>	string	phase reached final smallfinal semifinal quarterfinal eightfinal qualification sixteenfinal thirtytwofinal sixtyfourfinal	optional

3.5 <TM_resultdetail>

Element	Child elements	Description	Required
<Run>	<Intermediate>	Run details	optional

Attributes of <Run> :

Element	Attribute	Attribute values
<Run>	no	Number of run 1-3 = run result details tot = cumulated result details

3.6 <Run>

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank> <Speed> <Sectortime> <Sectordiff> <Sectorrank>	Intermediate result information	optional

Attributes of <Intermediate> :

Element	Attribute	Attribute values
<Intermediate>	i	Order number of intermediate point 1-98 = intermediate points 99 = Finish

3.7 <Intermediate>

Element	Data	Description	Required
<Time>	string	Time on intermediate point i MM:SS:ZZ	required
<Diff>	string	Time difference on intermediate point i MM:SS:ZZ	optional
<Rank>	integer	Rank on intermediate point i	required
<Speed>	decimal	Speed on intermediate point i in speed unit (Speed can be also used without using Time, Diff and Rank on an intermediate point)	optional
<Sectortime>	string	Time of the last sector (last intermediate point to current intermediate point) MM:SS:ZZ	optional
<Sectordiff>	string	Time difference of a sector MM:SS:ZZ	optional
<Sectorrank>	integer	Rank of the last sector	optional

3.8 <TM_notclassified>

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

Attributes of <TM_notranked> :

Element	Attribute	Attribute values
<TM_notranked>	Status	DNS = Did not start DNS1 = Did not start run 1 DNS2 = Did not start run 2 DSQ = Disqualified DSQ1 = Disqualified run 1 DSQ2 = Disqualified run 2 DNF = Did not finish DNF1 = Did not finish run 1 DNF2 = Did not finish run 2 DNQ = Did not qualify DNQ1 = Did not qualify run 1 DPO = Doping offense NPS = Not permitted to start DQB = Disqualification for unsportsmanlike behavior DQO = Disqualified for over quota

3.9 <TM_notranked>

Element	Data	Child elements	Description	Required
<Run>	Integer		Number of run	required
<Bib>	string		The competitor's starting bib from the first run	required
<Competitor>		<Fiscode> <Lastname> <Firstname> <Gender> <Nation> <Yearofbirth> <Clubname>	Details of a competitor	required
<Gate>	integer		Gate number where the infraction took place (only for DSQ)	optional
<TM_result>		<Timerun1> <Timerun2> <Timerun3> <Totaltime> <Diff> <Racepoints> <Level>	Details of the result of the competitor	optional
<TM_resultdetail>		<Intermediate>	Details of race result	optional
<Reason>	string		Reference to ICR rule number for disqualification offence	optional

Attributes of <TM_resultdetail> :

Element	Attribute	Attribute values
<TM_resultdetail>	Run	Number of run 1-3 = run result details tot = cumulated result details

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 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

3.11 <TM_result>

Element	Data	Description	Required
<Timerun1>	string	Time of 1st run MM:SS:ZZ	required
<Timerun2>	string	Time of 2nd run MM:SS:ZZ	optional
<Timerun3>	string	Time of 3rd run MM:SS:ZZ	optional
<Totaltime>	string	Total time of race MM:SS:ZZ	optional
<Diff>	string	Time difference on finish MM:SS:ZZ	optional
<Racepoints>	decimal	Race (FIS) points	required
<Level>	string	phase reached final smallfinal semifinal quarterfinal eightfinal qualification sixteenfinal thirtytwofinal sixtyfourfinal	optional

3.12 <TM_resultdetail>

Element	Child elements	Description	Required
<Run>	<Intermediate>	run result information	optional

Attributes of <Run> :

Element	Attribute	Attribute values
<Run>	no	Number of run 1-3 = run result details tot = cumulated result details

3.13 <Run>

Element	Child elements	Description	Required
<Intermediate>	<Time> <Diff> <Rank> <Speed> <Sectortime> <Sectordiff> <Sectorrank>	Intermediate result information	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

3.14 <Intermediate>

Element	Data	Description	Required
<Time>	string	Time on intermediate point i MM:SS:ZZ	required
<Diff>	string	Time difference on intermediate point i MM:SS:ZZ	optional
<Rank>	integer	Rank on intermediate point i	required
<Speed>	decimal	Speed on intermediate point i in speed unit (Speed can be also used without using Time, Diff and Rank on an intermediate point)	optional
<Sectortime>	string	Time of the last sector (last intermediate point to current intermediate point) MM:SS:ZZ	optional
<Sectordiff>	string	Time difference of a sector MM:SS:ZZ	optional
<Sectorrank>	integer	Rank of the last sector	optional

4. Example individual competition

```
<?xml version="1.0" encoding="utf-8"?>
<Fisresults>
  <Raceheader Sector="TM" Gender="W">
    <Season>2011</Season>
    <Codex>9970</Codex>
    <Nation>FIN</Nation>
    <Discipline>GS</Discipline>
    <Category>WC</Category>
    <Type>Official</Type>
    <Training/>
    <Racedate>
      <Day>19</Day>
      <Month>11</Month>
      <Year>2010</Year>
    </Racedate>
    <Place>St. Moritz</Place>
    <Eventname>Audi FIS World Cup</Eventname>
    <Tempunit>C</Tempunit>
    <Longunit>m</Longunit>
    <Speedunit>kmh</Speedunit>
    <Windunit>ms</Windunit>
  </Raceheader>
  <TM_race>
    <TM_raceinfo>
      <Usedfislist>1</Usedfislist>
      <Appliedpenalty>0.00</Appliedpenalty>
      <Calculatedpenalty>0.00</Calculatedpenalty>
      <Fvalue>800</Fvalue>
      <Jury Function="TechnicalDelegate">
        <Number>1047</Number>
        <Lastname>JOHANSSON</Lastname>
        <Firstname>Claes</Firstname>
        <Nation>SWE</Nation>
        <Phonenbr>+1234567890</Phonenbr>
        <Email>johansson@swe.se</Email>
      </Jury>
      <Jury Function="Chiefrace">
```

```
      <lastname>TUOMIKOSKI</lastname>
      <firstname>Petri</firstname>
      <nation>FIN</nation>
    </Jury>
    <Jury Function="Referee">
      <lastname>SKAARDAL</lastname>
      <firstname>Atle</firstname>
      <nation>FIS</nation>
    </Jury>
    <Jury Function="Assistantreferee">
      <lastname>MAYR</lastname>
      <firstname>Markus</firstname>
      <nation>FIS</nation>
    </Jury>
    <Jury Function="Assistantreferee">
      <lastname>MAYR</lastname>
      <firstname>Markus</firstname>
      <nation>FIS</nation>
    </Jury>
    <Member Function="ChiefCourse">
      <lastname>MUELLER</lastname>
      <firstname>Hans</firstname>
      <nation>GER</nation>
    </Member>
    <Runinfo no="1">
      <Course>
        <Name>Super Piste</Name>
        <Homologation>123.4567</Homologation>
        <Gates>22</Gates>
        <Turninggates>22</Turninggates>
        <Length>3650</Length>
        <Startelev>2650</Startelev>
        <Finishelev>1650</Finishelev>
        <Coursesetter>
          <Lastname>Bundi</Lastname>
          <Firstname>Luca</Firstname>
          <Nation>SUI</Nation>
        </Coursesetter>
        <Forerunner Order="1">
          <Lastname>ANDERSON</Lastname>
          <Firstname>J.</Firstname>
```

```
      <Nation>USA</Nation>
    </Forerunner>
    <Forerunner Order="2">
      <Lastname>ANDERSON</Lastname>
      <Firstname>J.</Firstname>
      <Nation>USA</Nation>
    </Forerunner>
    <Forerunner Order="3">
      <Lastname>BUCKLEY</Lastname>
      <Firstname>H.</Firstname>
      <Nation>USA</Nation>
    </Forerunner>
    <Intermediate i="1" type="time">
      <Distance>300</Distance>
    </Intermediate>
    <Intermediate i="2" type="time">
      <Distance>1500</Distance>
    </Intermediate>
    <Intermediate i="3" type="time">
      <Distance>3000</Distance>
    </Intermediate>
    <Intermediate i="4" type="speed">
      <Distance>3250</Distance>
    </Intermediate>
  </Course>
  <Weather>
    <Time>10:00</Time>
    <Place>Start</Place>
    <Weather>sunny</Weather>
    <Snow>hard packed</Snow>
    <Temperatureair>-2.3</Temperatureair>
    <Temperaturesnow>-2.0</Temperaturesnow>
    <Humnidity>78</Humnidity>
    <Windspeed>2.8</Windspeed>
  </Weather>
  <Weather>
    <Time>10:00</Time>
    <Place>Finish</Place>
    <Weather>sunny</Weather>
    <Snow>packed</Snow>
    <Temperatureair>-2.8</Temperatureair>
```

```
        <Temperaturesnow>-1.2</Temperaturesnow>
        <Humnidity>81</Humnidity>
        <Windspeed>0.5</Windspeed>
      </Weather>
      <Starttime>10:00</Starttime>
      <Endtime>11:51</Endtime>
    </Runinfo>
    <Runinfo no="2">
      <Course>
        <Name>Super Powder Piste</Name>
        <Homologation>123.4568</Homologation>
        <Gates>24</Gates>
        <Turninggates>24</Turninggates>
        <Length>3500</Length>
        <Startelev>2650</Startelev>
        <Finishelev>1650</Finishelev>
        <Coursesetter>
          <Lastname>Road</Lastname>
          <Firstname>John</Firstname>
          <Nation>CAN</Nation>
        </Coursesetter>
        <Forerunner Order="1">
          <Lastname>ANDERSON</Lastname>
          <Firstname>J.</Firstname>
          <Nation>USA</Nation>
        </Forerunner>
        <Forerunner Order="2">
          <Lastname>ANDERSON</Lastname>
          <Firstname>J.</Firstname>
          <Nation>USA</Nation>
        </Forerunner>
        <Forerunner Order="3">
          <Lastname>BUCKLEY</Lastname>
          <Firstname>H.</Firstname>
          <Nation>USA</Nation>
        </Forerunner>
        <Intermediate i="1" type="time">
          <Distance>300</Distance>
        </Intermediate>
        <Intermediate i="2" type="time">
          <Distance>1500</Distance>
```

```
        </Intermediate>
        <Intermediate i="3" type="time">
          <Distance>3000</Distance>
        </Intermediate>
        <Intermediate i="4" type="speed">
          <Distance>3200</Distance>
        </Intermediate>
      </Course>
      <Weather>
        <Time>13:00</Time>
        <Place>Start</Place>
        <Weather>sunny</Weather>
        <Snow>hard packed</Snow>
        <Temperatureair>-2.3</Temperatureair>
        <Temperaturesnow>-2.0</Temperaturesnow>
        <Humnidity>78</Humnidity>
        <Windspeed>2.8</Windspeed>
      </Weather>
      <Weather>
        <Time>13:00</Time>
        <Place>Finish</Place>
        <Weather>sunny</Weather>
        <Snow>packed</Snow>
        <Temperatureair>-2.8</Temperatureair>
        <Temperaturesnow>-1.2</Temperaturesnow>
        <Humnidity>81</Humnidity>
        <Windspeed>0.5</Windspeed>
      </Weather>
      <Starttime>13:00</Starttime>
      <Endtime>14:01</Endtime>
    </Runinfo>
    <Timingby>Swiss Timing</Timingby>
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        <Firstname>Cody</Firstname>
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          <Nation>KOR</Nation>
          <Yearofbirth>1981</Yearofbirth>
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5. Document Control

Version History	Description
Version 1.0 (26.10.2026)	Initial version, based on the Alpine Result XML Description version 2.13

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