FIS data exchange XML protocol for Para

Version 1.5 (10.12.2025)

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2. Introduction

For competition results to be included in the FIS database and to be considered for FIS points, results must be provided via XML file in the format described in this document. A very basic example of the XML file:

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="PCC" Gender="M">
        <Season>2025</Season>
        <Codex>0029</Codex>
        <Nation>ITA</Nation>
        <Discipline>SPF</Discipline>
        <Category>WC</Category>
        <Eventname>Men's 1km Sprint Final Classic</Eventname>
        <Place>Val Di Fiemme</Place>
        <Racedate>
            <Day>1</Day>
            <Month>2</Month>
            <Year>2025</Year>
        </Racedate>
    </Raceheader>
    <PCC_race>
        <PCC_classified>
            <PCC_ranked Status="QLF">
                <Rank>1</Rank>
                <Bib>7</Bib>
                <Competitor>
                    <Fiscode>9999999</Fiscode>
                    <Lastname>DOE</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>M</Gender>
                    <Nation>SUI</Nation>
                    <Yearofbirth>1993</Yearofbirth>
                    <Sportclass>LW11.5</Sportclass>
                    <Factor>0.878</Factor>
                </Competitor>
                <PCC_result>
                    <Totalrealtime>1:22.44</Totalrealtime>
                    <Totaltime>1:12.44</Totaltime>
                    <Racepoints>10.66</Racepoints>
                    <Categorycode>SI</Categorycode>
                </PCC_result>
            </PCC_ranked>
        </PCC_classified>
```

```
        <PCC_notclassified />
    </PCC_race>
</Fisresults>
```

This document describes the XML format for all para disciplines as the only major difference between these is the prefix for most XML tags.

- PSB – Para Snowboard
- PCC – Para Cross Country
- PAL – Para Alpine Skiing

The example above is a valid XML for Para Cross-Country results but would be valid also for any of the other disciplines using the respective discipline code, if the "`PSB_`" prefix is used, e.g. `PSB_race`, `PSB_classified`. All the examples in this document will use the "`PXX_`" prefix as a placeholder unless the example defines other specific discipline information.

2.1. Result separation

Results must be submitted by codex, as indicated on the FIS calendar. Competitions are grouped or separated based on the FIS point calculation requirements for each discipline.

For example, in PAL, results are submitted as a single race within one XML file. However, in PCC, categories may be grouped differently depending on athlete participation and calculation rules. This can result in multiple codices within a single competition, and therefore, necessitate a separation of results. As a rule of thumb, if the results for each category must be calculated independently, then each category should have its own dedicated codex in the calendar.

2.2. Sending XML results to FIS

Results in the correct XML format must be sent as an e-mail attachment to results@fis-ski.com. Once received and processed an e-mail response will be sent informing of successful result processing or of any errors in case if processing failed.

2.3. Support

For support requests, questions and feedback, please contact FIS IT department at it@fis-ski.com. When contacting support regarding a specific event, please indicate the race codex and discipline.

3. XML structure

The <Fisresults> element

XML file will always have root <Fisresults> element that it will contain two child elements - all the race defining information within <Raceheader> and results with optional race details within <SB_race> or <FS_race> depending on the discipline.

The element accepts no attributes and has these possible child elements:

Element	Data	Description	Required
<Raceheader>	element	Contains competition defining information – season code, codex, gender etc.	yes
<PXX_race>	element	Contains competition results, information about not-ranked competitors and optional details about the race – e.g., weather, judges, course.	yes

The <Raceheader> element

The <Raceheader> element defines the global properties of a race, importantly – season code, codex, race date and gender. Whenever XML results file is being processed, this data is used to find the race in the FIS database.

The element has two required attributes:

Attribute	Data	Description	Required
Gender	string	Gender of the race with possible values – M (men), W (women), A (mixed team).	yes
Sector	string	Discipline code of the race with possible values: • PSB – Para Snowboard • PCC – Para Cross Country • PAL – Para Alpine Skiing	yes

Possible child elements:

Element	Data	Description	Required
<Season>	integer	Season code of the competition, as in FIS calendar.	yes
<Codex>	integer	The unique identification number for each competition with the discipline, as in FIS calendar.	yes
<Nation>	string	The three letter FIS code for the organising nation, as in FIS calendar	yes
<Discipline>	string	Event abbreviation of the competition, as in FIS calendar: • DH - Downhill • SG - Super G • AC - Alpine Combined	yes

		• GS - Giant Slalom • SL - Slalom • PAR - Parallel • TP - Team Parallel • INT - Interval Start • MAS - Mass Start • PUR - Pursuit • SPQ - Sprint Qualification • SPF - Sprint Final • TEO - Open Relay • TEM - Mixed Relay • SBX - Snowboard Cross • BXT - Snowboard Cross Team • BSL - Banked Slalom • DBSL - Dual Banked Slalom • DBSLT - Dual Banked Slalom Team • PSL - Parallel Slalom	
<Category>	string	The FIS abbreviation for the category of competition specific to the event, as in FIS calendar	yes
<Racedate>	element	Used to define the date of the competition. Must match the value defined in FIS calendar.	yes
<Type>	string	Type of data – used to indicate whether the data contains results or start list. Example of possible values: • startlist – start list of the competition • partial – partial results • unofficial – unofficial results • official – official results If not provided, it will consider the file to contain official results. It accepts the optional Run attribute	no
<Phase>	string	Last phase completed after which the results are being sent for. Example of possible values: • final • smallfinal • semifinal • quarterfinal • eightfinal • sixteenfinal • thirtytwofinal • qualification • preheat • seeding This value can be used to indicate that the event is not fully completed, by specifying something other than “final” for results.	no
<Eventname>	string	Name of event as published in FIS calendar	no
<Place>	string	Resort, town, etc. of competition venue	no

The <Type> element within <Raceheader>

The <Type> element accepts multiple values as strings (startlist, partial, unofficial, official) and one attribute:

Attribute	Data	Description	Required
Run	integer	Run number for which the data is sent – e.g. 1, 2.	no

The <Racedate> element within <Raceheader>

The <Racedate> element accepts three child elements:

Element	Data	Description	Required
<Year>	integer	Year of the competition	yes
<Month>	integer	Month of the competition	yes
<Day>	integer	Day of the competition	yes

Example of the <Racedate> element:

```
<Racedate>
    <Year>2024</Year>
    <Month>2</Month>
    <Day>22</Day>
</Racedate>
```

Example of a simple <Raceheader> element

```
<Raceheader Gender="W" Sector="PXX">
    <Season>2024</Season>
    <Codex>0060</Codex>
    <Nation>SUI</Nation>
    <Discipline>SBX</Discipline>
    <Category>WC</Category>
    <Racedate>
        <Year>2024</Year>
        <Month>2</Month>
        <Day>22</Day>
    </Racedate>
</Raceheader>
```

3.1. The <PXX_race> element

The <PXX_race> element defines the competition specific information (jury, course etc.) along with the results of the competition. The element accepts three child elements:

Element	Data	Description	Required
<PXX_raceinfo>	element	Contains information about the competition – jury, course, format etc.	yes, for Cross
<PXX_classified>	element	Contains information about the ranked competitors.	yes
<PXX_notclassified>	element	Contains information on competitors that were not ranked – e.g. DNS, DNF, or others.	no

3.2. The <PXX_raceinfo> element

The <PXX_raceinfo> accepts multiple child elements:

Element	Data	Description	Required
<Usedfislist>	integer	FIS list number which is used for the preparation of the start list and for calculation of FIS point penalty based on the results.	no
<Appliedpenalty>	decimal	Applied penalty for the competition results. 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	no
<Calculatedpenalty>	decimal	Calculated penalty for the competition results.	no
<Timingby>	string	Timing or scoring by company	no
<Dataprocessingby>	string	Data processing by company	no
<Softwarecompany>	string	Name of software company	no
<Softwarename>	string	Name of timing or scoring software	no
<Softwareversion>	string	Version of the timing or scoring software	no
<Jury>	element	Definition of the jury members	yes
<Finalformat>	element	Definition of the final format	No, only for snowboard cross
<Qualificationformat>	element	Definition of the qualification format	No, only for snowboard cross

3.3. The <Jury> element

The <Jury> element is used to define a jury member. It accepts one attribute:

Attribute	Data	Description	Required
Function	enum	Function of the jury member with one of the available values:	yes

		• HeadJudge • ChiefCompetition • RaceDirector • ContestDirector • TechnicalDelegate • TechnicalDelegateAssistant • TechnicalDelegateAssistantNational • StartReferee • FinishReferee • ChiefOfFinish • Referee	

The element accepts these child elements:

Element	Data	Description	Required
`<Lastname>`	string	Last name of the jury member	yes
`<Firstname>`	string	First name of the jury member	yes
`<Nation>`	string	FIS nation code of the jury member	yes

Example of the `<Jury>` element:

```
<Jury Function="TechnicalDelegate">
    <Lastname>DOHN</Lastname>
    <Firstname>Joe</Firstname>
    <Nation>USA</Nation>
</Jury>
```

3.4. The `<Finalformat>` element

The `<Final>` element withing `<PSB_raceinfo>` is used to define details about the format competition was held in and is currently only intended for Para Snowboard Cross events:

Attribute	Data	Description	Required
`Perheat`	int	Maximum number of competitors per heat in the final phase	yes
`Phase`	enum	The starting round of the finals phase: • final • semifinal • quarterfinal • eightfinal • sixteenfinal • thirtytwofinal	yes

3.5. The <Qualificationformat> element

The <Qualification> element within <PSB_raceinfo> is used to define the qualification phase format and type:

Attribute	Data	Description	Required
Format	enum	Format identifier: • qualification • seeding	yes
Type	enum	The subtype of a format, for qualification or seeding formats: • single-run • two-run • two-run-cutoff	no

3.6. The <PXX_classified> element

The <PXX_classified> element is used to send the results or start list. In case of results, this should contain only the athletes that have been ranked in the competition.

The element accepts one or multiple <PXX_ranked> child elements:

Element	Data	Description	Required
<PXX_ranked>	element	Contains information on a valid competitor or team in the results or start list	yes

3.7. The <PXX_notclassified> element

The <PXX_notclassified> element is used to send information on competitors that were not ranked in a competition, e.g. DNS, DNF, NPS etc.

The element accepts one or multiple <PXX_notranked> child elements:

Element	Data	Description	Required
<PXX_notranked>	element	Contains information on a competitor or team that was not ranked in the competition	yes

3.8. The <PXX_ranked> and <PXX_notranked> element

The <PXX_ranked> and <PXX_notranked> elements can be validated differently depending on whether the XML file type in the <Raceheader> (see 3) is defined as start list or results. Also, the amount and type of information required can be different depending on whether the <PXX_ranked> is a direct child of <PXX_classified>/<PXX_notclassified> or it is used to define individual result as part of a team as a direct child of <PXX_team>.

The element accepts attributes:

Attribute	Data	Description	Required
Status	enum	For <PXX_ranked> only one possible value – QLF. For <PXX_notranked> this should be set to the IRM of competitor in the final phase of the competition.	Yes, when not a sibling of <PXX_team>

The element accepts child elements:

Element	Data	Description	Required
<Rank>	integer	Competitors rank in the competition, For Para Alpine: this must be rank within the <Categorycode>, if multiple are sent.	yes, for results when <PXX_ranked> is direct child of <PXX_classified>
<Order>	integer	Competitors order in the start list	yes, for start list when <PXX_ranked> is direct child of <PXX_classified>
<Bib>	integer	The competitor's starting bib from the first run	yes
<Competitor>	element	Details of the competitor	yes, for individual competition or when <PXX_ranked> is direct child of <PXX_team>
<Guide>	element	Details of the competitor	yes, for vision impaired athlete, when guide is present
<Team>	element	Details of the team	yes, for team competition and when <PXX_ranked> is a direct child of <PXX_classified>
<PXX_team>	element	Composition of the team and the individual results	No
<PXX_result>	element	Details of the result	yes

3.9. The <PXX_team> element

This element wraps nested <PXX_ranked> elements for purposes of team composition and results.

3.10. The <Competitor> element

The <Competitor> element is used to define information about an individual competitor, and it accepts multiple child elements:

Element	Data	Description	Required
<Fiscode>	integer	FIS code, as in the FIS database	yes

<Lastname>	string	Last name, exactly as in the FIS database	no
<Firstname>	string	First name, exactly as in the FIS database	no
<Nation>	string	FIS nation code	yes
<Gender>	enum	Gender – M (men), W (women)	no
<Yearofbirth>	integer	Birth year	no
<Clubname>	string	Club name	no
<Sportclass>	string	Sport class code	yes
<Factor>	float	The corresponding <Sportclass> factor at which the athlete's results are being adjusted.	yes

Example of a <Competitor> element:

```
<Competitor>
    <Fiscode>550050</Fiscode>
    <Lastname>DOE</Lastname>
    <Firstname>Joe</Firstname>
    <Gender>M</Gender>
    <Nation>SUI</Nation>
    <Sportclass>LL2</Sportclass>
    <Factor>0.91</Factor>
</Competitor>
```

3.11. The <Guide> element

The <Guide> element is used to define information about an individual guide for a given Vision Impaired Competitor, and it accepts multiple child elements:

Element	Data	Description	Required
<Fiscode>	integer	FIS code, as in the FIS database	yes
<Lastname>	string	Last name, exactly as in the FIS database	no
<Firstname>	string	First name, exactly as in the FIS database	no
<Nation>	string	FIS nation code	yes
<Gender>	enum	Gender – M (men), W (women)	no

Example of a <Competitor> element:

```
<Competitor>
    <Fiscode>550050</Fiscode>
    <Lastname>DOE</Lastname>
    <Firstname>Joe</Firstname>
    <Gender>M</Gender>
    <Nation>SUI</Nation>
</Competitor>
```

3.12. The <Team> element

The <Team> element is used to define information about a team:

Element	Data	Description	Required
<Fiscode>	integer	FIS code, as in the FIS database	yes
<Teamname>	string	Team name, exactly as in the FIS database	no
<Nation>	string	FIS nation code	yes

Example of a <Team> element:

```
<Team>
    <Fiscode>2533431</Fiscode>
    <Teamname>SWITZERLAND</Teamname>
    <Nation>SUI</Nation>
</Team>
```

3.13. The <PXX_result> element

Like <PXX_ranked>, also <PXX_result> required data will depend on whether the element is sent as part of a team (<PXX_team>). The element accepts attributes only when sent as a descendant of <PXX_team>:

Attribute	Data	Description	Required
Run	int	Run number for which the result is sent	yes, when sent as part of a team result
Heat	int	Heat number for which the result is sent	no

The <PXX_result> element accepts child elements:

Element	Data	Description	Required
<Level>	enum	Phase reached with possible values: • final • smallfinal • semifinal • quarterfinal • eightfinal • sixteenfinal • thirtytwofinal • qualification • preheat • seeding	yes, for Para Snowboard team results. Applicable when different phases exist, for example in PSB BSL and PCC Sprint

<Color>	enum	Color of competitors bib (Cross events) or course (Parallel events). Possible values: • red • blue • green • yellow	no
<Racepoints>	decimal	Race points calculated for the competition result	no
<Time>	time	The time of an individual run, to be used most frequently in Para Alpine. This value can be a calculated time that is a derivative of <Realtime> or the same as <Realtime> if no factoring is applicable. It accepts the optional Run attribute. Format - HH:MM:SS.dd	no
<Realtime>	time	The real, actual, time. It accepts the optional Run attribute. Format - HH:MM:SS.dd	no
<Totaltime>	time	The overall total time as used for ranking. This can be a calculated time that is a derivative of <Totalrealtime> or the same as <Totalrealtime> if no factoring is applicable. Format - HH:MM:SS.dd	yes, if <Status> QLF. In the case of Para Cross-Country Sprint Final, this should be the qualification time.
<Totalrealtime>	time	The overall real, actual, time. Format - HH:MM:SS.dd	yes, if <Status> QLF. In the case of Para Cross-Country Sprint, this should be the qualification time.
<Categorycode>	enum	The category that this result should be considered for. Category must be enabled for the corresponding competition. Category can have separate ranking and cup points, but the FIS points are awarded across all categories within the competition. Possible values: • **SI** (for Sitting) • **ST** (for Standing) • **VI** (for Vision Impaired) • **LL1** (for Lower Limb 1) • **LL2** (for Lower Limb 2) • **UL** (for Upper Limb)	yes

The <Realtime> and <Time> elements within <PXX_result>

The <Realtime> and <Time> elements accept a time value (Format - HH:MM:SS.dd) and one attribute:

Attribute	Data	Description	Required
Run	integer	Run number for which the data is sent – e.g. 1, 2.	no

Example of a simple <PXX_result> element as descendant of <PXX_classified> and <PXX_ranked>:

```
<PXX_classified>
    <PXX_ranked Status="QLF">
        <Rank>1</Rank>
        <Bib>14</Bib>
        <Competitor>
            <Fiscode>2535331</Fiscode>
            <Lastname>DOE</Lastname>
            <Firstname>John</Firstname>
            <Nation>USA</Nation>
            <Sportclass>NS2</Sportclass>
            <Factor>0.781</Factor>
        </Competitor>
        <PXX_result>
            <Totaltime>1:12:52</Totaltime>
            <Totalrealtime>1:22:16</Totalrealtime>
            <Categorycode>VI</Categorycode>
        </PXX_result>
    </PXX_ranked>
</PXX_classified>
```

4. Examples

4.1. Results for individual Snowboard Cross qualification event

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="PSB" Gender="M">
        <Season>2025</Season>
        <Codex>0122</Codex>
        <Nation>SUI</Nation>
        <Discipline>SBX</Discipline>
        <Category>WC</Category>
        <Eventname>Men's Snowboard Cross</Eventname>
        <Place>Lenk</Place>
        <Racedate>
            <Day>22</Day>
            <Month>1</Month>
            <Year>2025</Year>
        </Racedate>
    </Raceheader>
    <PSB_race>
        <PSB_raceinfo>
            <Qualificationformat Format="qualification" Type="single-run"/>
            <Finalformat Perheat="4" Phase="sixteenfinal"/>
        </PSB_raceinfo>
        <PSB_classified>
            <PSB_ranked Status="QLF">
                <Rank>1</Rank>
                <Bib>7</Bib>
                <Competitor>
                    <Fiscode>999999</Fiscode>
                    <Lastname>DOE</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>M</Gender>
                    <Nation>SUI</Nation>
                    <Yearofbirth>1993</Yearofbirth>
                    <Sportclass>LL2</Sportclass>
                </Competitor>
                <PSB_result>
                    <Categorycode>LL2</Categorycode>
                </PSB_result>
            </PSB_ranked>
        </PSB_classified>
        <PSB_notclassified />
    </PSB_race>
```

```
</Fisresults>
```

4.2. Results for Snowboard Cross final event

Example of the finals sent to a SBX codex.

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="PSB" Gender="M">
        <Season>2025</Season>
        <Codex>0096</Codex>
        <Nation>SUI</Nation>
        <Discipline>SBX</Discipline>
        <Category>WC</Category>
        <Eventname>Men's Snowboard Cross</Eventname>
        <Place>Lenk</Place>
        <Racedate>
            <Day>24</Day>
            <Month>1</Month>
            <Year>2025</Year>
        </Racedate>
    </Raceheader>
    <PSB_race>
        <PSB_raceinfo>
            <Qualificationformat Format="qualification" Type="single-run"/>
            <Finalformat Perheat="4" Phase="sixteenfinal"/>
        </PSB_raceinfo>
        <PSB_classified>
            <PSB_ranked Status="QLF">
                <Rank>1</Rank>
                <Bib>7</Bib>
                <Competitor>
                    <Fiscode>999999</Fiscode>
                    <Lastname>DOE</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>M</Gender>
                    <Nation>SUI</Nation>
                    <Yearofbirth>1993</Yearofbirth>
                    <Sportclass>LL2</Sportclass>
                </Competitor>
                <PSB_result>
                    <Level>final</Level>
                    <Categorycode>LL2</Categorycode>
```

```
                </PSB_result>
            </PSB_ranked>
        </PSB_classified>
        <PSB_notclassified />
    </PSB_race>
</Fisresults>
```

4.3. Results for alpine skiing event

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="PAL" Gender="M">
        <Season>2025</Season>
        <Codex>0145</Codex>
        <Nation>SUI</Nation>
        <Discipline>GS</Discipline>
        <Category>WC</Category>
        <Eventname>Men's Giant Slalom</Eventname>
        <Place>St. Moritz</Place>
        <Racedate>
            <Day>11</Day>
            <Month>1</Month>
            <Year>2025</Year>
        </Racedate>
    </Raceheader>
    <PAL_race>
        <PAL_classified>
            <PAL_ranked Status="QLF">
                <Rank>1</Rank>
                <Bib>7</Bib>
                <Competitor>
                    <Fiscode>999999</Fiscode>
                    <Lastname>DOE</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>M</Gender>
                    <Nation>SUI</Nation>
                    <Yearofbirth>1993</Yearofbirth>
                    <Sportclass>AS3</Sportclass>
                    <Factor>0.910</Factor>
                </Competitor>
                <Guide>
                    <Fiscode>888888</Fiscode>
                    <Lastname>SMITH</Lastname>
```

```
                <Firstname>John</Firstname>
                <Gender>W</Gender>
                <Nation>SUI</Nation>
            </Guide>
            <PAL_result>
                <Time Run="1">1:15.05</Time>
                <Realtime Run="1">1:32.14</Realtime>
                <Time Run="2">1:12.44</Time>
                <Realtime Run="2">1:27.16</Realtime>
                <Totaltime>2:27.49</Totalrealtime>
                <Totalrealtime>2:59.30</Totaltime>
                <Racepoints>10.66</Racepoints>
                <Categorycode>VI</Categorycode>
            </PAL_result>
        </PAL_ranked>
    </PAL_classified>
    <PAL_notclassified />
</PAL_race>
</Fisresults>
```

4.4. Results for alpine skiing event with multiple category codes and ranks

This example shows how the rank is grouped within the sent Categorycodes. In this example, the race was ran with Standing and VI athletes together but their ranks are distinct between the Categories.

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="PAL" Gender="M">
        <Season>2025</Season>
        <Codex>0145</Codex>
        <Nation>SUI</Nation>
        <Discipline>GS</Discipline>
        <Category>WC</Category>
        <Eventname>Men's Giant Slalom</Eventname>
        <Place>St. Moritz</Place>
        <Racedate>
            <Day>11</Day>
            <Month>1</Month>
            <Year>2025</Year>
        </Racedate>
    </Raceheader>
    <PAL_race>
```

```
        <PAL_classified>
            <PAL_ranked Status="QLF">
                <Rank>1</Rank>
                <Bib>7</Bib>
                <Competitor>
                    <Fiscode>999999</Fiscode>
                    <Lastname>DOE</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>M</Gender>
                    <Nation>SUI</Nation>
                    <Yearofbirth>1993</Yearofbirth>
                    <Sportclass>AS3</Sportclass>
                    <Factor>0.9105</Factor>
                </Competitor>
                <Guide>
                    <Fiscode>888888</Fiscode>
                    <Lastname>SMITH</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>W</Gender>
                    <Nation>SUI</Nation>
                </Guide>
                <PAL_result>
                    <Time Run="1">1:15.05</Time>
                    <Realtime Run="1">1:32.14</Realtime>
                    <Time Run="2">1:12.44</Time>
                    <Realtime Run="2">1:27.16</Realtime>
                    <Totaltime>2:27.49</Totalrealtime>
                    <Totalrealtime>2:59.30</Totaltime>
                    <Racepoints>10.66</Racepoints>
                    <Categorycode>VI</Categorycode>
                </PAL_result>
            </PAL_ranked>
            <PAL_ranked Status="QLF">
                <Rank>1</Rank>
                <Bib>3</Bib>
                <Competitor>
                    <Fiscode>999998</Fiscode>
                    <Lastname>SMITH</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>M</Gender>
                    <Nation>USA</Nation>
                    <Yearofbirth>1993</Yearofbirth>
                    <Sportclass>LW10-2</Sportclass>
                    <Factor>0.8158</Factor>
```

```
            </Competitor>
            <PAL_result>
                <Time Run="1">1:17.05</Time>
                <Realtime Run="1">1:30.14</Realtime>
                <Time Run="2">1:12.44</Time>
                <Realtime Run="2">1:25.16</Realtime>
                <Totaltime>2:29.49</Totalrealtime>
                <Totalrealtime>3:02.30</Totaltime>
                <Racepoints>8.66</Racepoints>
                <Categorycode>ST</Categorycode>
            </PAL_result>
        </PAL_ranked>
        <PAL_ranked Status="QLF">
            <Rank>2</Rank>
            <Bib>10</Bib>
            <Competitor>
                <Fiscode>999997</Fiscode>
                <Lastname>MATTHEWS</Lastname>
                <Firstname>Henry</Firstname>
                <Gender>M</Gender>
                <Nation>SUI</Nation>
                <Yearofbirth>1993</Yearofbirth>
                <Sportclass>AS1</Sportclass>
                <Factor>0.6435</Factor>
            </Competitor>
            <Guide>
                <Fiscode>888887</Fiscode>
                <Lastname>JACOBS</Lastname>
                <Firstname>SAM</Firstname>
                <Gender>W</Gender>
                <Nation>SUI</Nation>
            </Guide>
            <PAL_result>
                <Time Run="1">1:20.05</Time>
                <Realtime Run="1">1:34.14</Realtime>
                <Time Run="2">1:22.44</Time>
                <Realtime Run="2">1:42.16</Realtime>
                <Totaltime>2:50.49</Totalrealtime>
                <Totalrealtime>3:10.30</Totaltime>
                <Racepoints>16.66</Racepoints>
                <Categorycode>VI</Categorycode>
            </PAL_result>
        </PAL_ranked>
    </PAL_classified>
```

```
        <PAL_notclassified />
    </PAL_race>
</Fisresults>
```

4.5. Results for cross-country sprint final event

Example of dedicated qualification result sent to a final codex, the qualification time being the value sent in `<Totalrealtime>` and `<Totaltime>`

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="PCC" Gender="M">
        <Season>2025</Season>
        <Codex>0029</Codex>
        <Nation>ITA</Nation>
        <Discipline>SPF</Discipline>
        <Category>WC</Category>
        <Eventname>Men's 1km Sprint Final Classic</Eventname>
        <Place>Val Di Fiemme</Place>
        <Racedate>
            <Day>1</Day>
            <Month>2</Month>
            <Year>2025</Year>
        </Racedate>
    </Raceheader>
    <PCC_race>
        <PCC_classified>
            <PCC_ranked Status="QLF">
                <Rank>1</Rank>
                <Bib>7</Bib>
                <Competitor>
                    <Fiscode>999999</Fiscode>
                    <Lastname>DOE</Lastname>
                    <Firstname>John</Firstname>
                    <Gender>M</Gender>
                    <Nation>SUI</Nation>
                    <Yearofbirth>1993</Yearofbirth>
                    <Sportclass>LW11</Sportclass>
                    <Factor>0.878</Factor>
                </Competitor>
                <PCC_result>
                    <!-- Qualification time -->
                    <Totalrealtime>1:32.44</Totalrealtime>
```

```
                    <Totaltime>1:12.44</Totaltime>
                    <Racepoints>10.66</Racepoints>
                    <Categorycode>SI</Categorycode>
                </PCC_result>
            </PCC_ranked>
        </PCC_classified>
        <PCC_notclassified />
    </PCC_race>
</Fisresults>
```

5. Change log

5.1. Version 1.0, 01.04.2025

Section	Description
Global	• Initial version

5.2. Version 1.1, 17.04.2025

Section	Description
Global	• Various typo fixes and data updates to the examples

5.3. Version 1.2, 07.22.2025

Section	Description
PXX_result	• Expanded the description of the totaltime (totalrealtime) and time (realtime) fields to clarify their usage.

5.4. Version 1.3, 05.09.2025

Section	Description
PXX_result	• Clarified the need to qualification time in PCC, which is not applicable in PSBX (in contrast to SBX)
Examples	• Updated examples to reflect the above changes • Added example with one from an alpine event which has multiple Categorycodes.

5.5. Version 1.4, 23.09.2025

Section	Description
PXX_result	• Add missing Email
Factor	• Fixed type, changed from int to float

5.6. Version 1.5, 10.12.2025

Section	Description
PXX_result	• Remove totalscore as it is not needed
Examples	• Various updates to the examples