# Sending results for Ski Cross individual competition starting from 2023 season

Version 1.0 (29.07.2022)

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## 2. Introduction

Starting from 2023 season there are important changes on how results XML has to be prepared for individual Ski Cross competitions – the XML file will have to provide more data about the competition.

In the very near future Ski Cross will adapt a new FIS points calculation which will rely not only on the competitors final rank but also on the time achieved in the qualification phase. While there are still cases where Ski Cross competitions are held without timed qualification, it is being investigated how points will be calculated for those competitions.

To allow running a "shadow" season and have the proposed new FIS points calculated in the background, starting with 2023 season there will be additional data that has to be added to the XML files:

1. Data about the format of the qualification and final phases
2. When timed qualification is held (seeding or qualification) – also the qualification times have to be sent via XML

Version 1.0
29.07.2022

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# 3. Changes to sending XML results

There are two major changes to how XML results will need to be sent starting from 2023 season – information about the competition is required and also qualification phase times have to be sent when applicable. These changes apply only to events that are not of category "QUA". In case there is a separate qualifying codex, the format and time information is mandatory only when sending the results for final codex.

## 3.1. Sending the competition format information

Competition format information has to be sent within he `<FS_raceinfo>` element by specifying format information via the `<Qualificationformat>` and `<Finalformat>` element attributes.

To specify the qualification format:

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="FS" Gender="M">
        <!-- Race information -->
    </Raceheader>
    <FS_race>
        <FS_raceinfo>
            <!-- Format information for Ski Cross, required from 2023 -->
            <Qualificationformat Format="qualification" Type="single-run"/>
        </FS_raceinfo>
        <!-- Results -->
    </FS_race>
</Fisresults>
```

The `<Qualificationformat>` element accepts two attributes:

| Attribute | Data | Description | Required |
|---|---|---|---|
| Format | enum | Format identifier:<br>• qualification<br>• seeding<br>• qualification-heat<br>• three-heat<br>• round-robin | yes |
| Type | enum | The subtype of a format:<br>• For qualification or seeding formats:<br>  o single-run<br>  o two-run<br>  o two-run-cutoff<br>  o jam-session<br>• For round robin format:<br>  o single-panel | no |

| | | o double-panel | |
|---|---|---|---|

To send information about the final format:

```xml
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Fisresults>
    <Raceheader Sector="FS" Gender="M">
        <!-- Race information -->
    </Raceheader>
    <FS_race>
        <FS_raceinfo>
            <!-- Format information for Ski Cross, required from 2023 -->
            <Finalformat Perheat="4" Phase="sixteenfinal"/>
        </FS_raceinfo>
        <!-- Results -->
    </FS_race>
</Fisresults>
```

## 3.2. Sending the qualification times

Whenever `<Qualificationformat>` element has attribute `Format` set to `seeding` or `qualification`, it is mandatory to send result achieved in the qualification phase by sending `<Totaltime>` within the `<FS_result>` element:

```xml
<FS_classified>
    <FS_ranked Status="QLF">
        <Rank>1</Rank>
        <Bib>7</Bib>
        <Competitor>
            <Fiscode>2531493</Fiscode>
            <Lastname>REGEZ</Lastname>
            <Firstname>Ryan</Firstname>
            <Gender>M</Gender>
            <Nation>SUI</Nation>
            <Yearofbirth>1993</Yearofbirth>
        </Competitor>
        <FS_result>
            <!-- Qualification time, required for SX from 2023 -->
            <Totaltime>1:12.44</Totaltime>
        </FS_result>
    </FS_ranked>
</FS_classified>
```

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# 4. Support and more information

When sending XML results using a format that is no longer supported you will receive an error e-mail response indicating the issues that are preventing the file from being accepted. If you need any further assistance, please contact FIS IT support at it@fis-ski.com.

You will find further information about the XML format in the documentation available at https://www.fis-ski.com/en/inside-fis/document-library/timing-data.

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# 5. Change log

## 5.1. Version 1.0, 29.07.2022

| Section | Description |
|---------|-------------|
| Global | • Initial document version |