

FIGURE SKATING



ISUCALCFS

Figure Skating
User Manual

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Documentation Updates

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1 INTRODUCTION

About This Document

This document describes the operation of ISUCalcFS.

Associated Documents

- FS Quick Reference Guide
- FS ISUCutterFS Manual
- FS ISUScore2FS Manual

About the ISUCalcFS application

ISUCalcFS is a program for the calculation of figure skating competitions by the rules defined by the International Skating Union (ISU). Its windows-based user interface lets you edit multiple competitions in one database.

2 HARDWARE AND SOFTWARE REQUIREMENTS

The requirements for the program are:

- Processor: Pentium 500
- Memory: 64 MB
- Operating System: Windows 98 SE, Windows NT, Windows 2000, Windows XP x86, Windows 7 x86, Windows 7 x64
- Disk space: 60 MB
- Printing: Is done through Windows. Laser printer with 6 pages per minute recommended.
- Mouse: Supported by Windows
- Monitor: SVGA 800*600 resolution

3 SOFTWARE INSTALLATION

Carry out the following steps to install the application:

1. Start the ISUCalcFS setup executable file.



Figure 1 - Setup opening screen

2. Click [Next].
3. Agree to the end user license agreement and click [Next] to continue.
4. Choose the destination location. Default C:\ISUCalcFS (Setup will install ISUCalcFS in this folder).
5. Select Start Menu Folder. Default: ISUCalcFS (Setup will create the program's shortcuts in this Start Menu folder).
6. Select Additional Tasks.

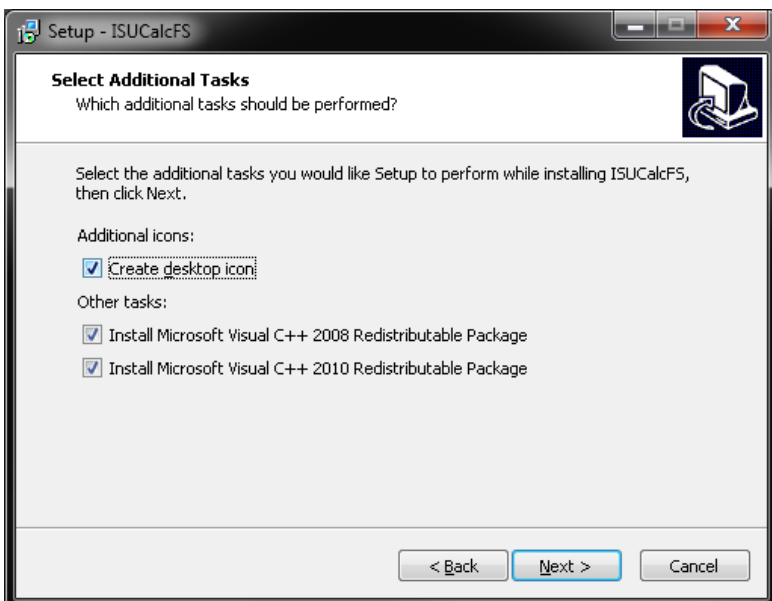


Figure 2 - Setup ISUCalcFS - Additional Tasks

7. ISUCalcFS uses the Microsoft Visual C++ 2008 and 2010 Redistributable Packages. Both setup sets are included and automatically installed if the tasks (the checkboxes) are enabled (the setup checks the registry whether the both packages are already installed, otherwise the checkboxes are enabled by default).
8. ISUCalcFS uses the Microsoft component MSXML6. The setup set msxml6.msi is included and automatically installed.
9. ISUCalcFS uses the Visual FoxPro ODBC Driver. The setup set VFPODBC.msi is included and automatically installed.
10. ISUCalcFS uses the Crystal Reports Xi Runtime. The setup set is **not** included. Ensure to install this runtime package from <http://www.ISUJudgingSystem.com> before starting the ISUCalcFS application.
11. Check all settings and start installation.
12. Restart the system after successful installation.
13. Start the ISUCalcFS application.
14. If you use ISUScoreFS for data input, adjust the ISUCalcFS.ini setup file.
15. If you want to print the reports in letter format, open the report folder and copy the RPT files of RpXiEn_Letter folder into the RpXiEn folder.

3.1 Program line parameter

There are three possible program line parameters to start the ISUCalcFS application.

"/datadir:" sets the database folder, e.g. /datadir:demo. ISUCalcFS is using the data files in the demo folder.

"/backup" starts ISUCalcFS with the ISUCalcFSBackup.ini. This command is required for remote control of ISUCalcFS. (see section 6.4.5) for additional information)

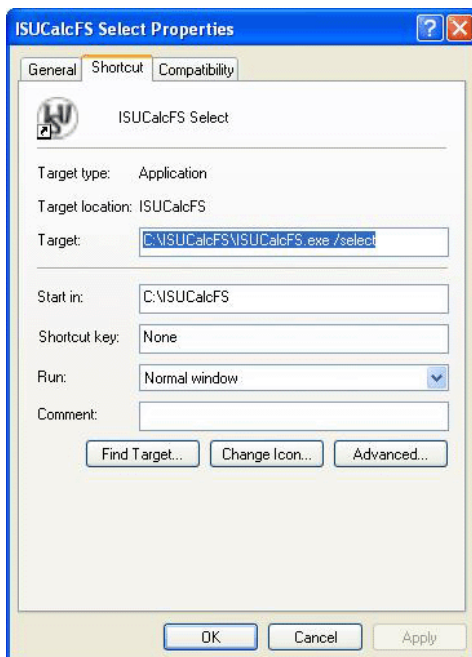


Figure 3 - Right-click on desktop shortcut

The /backup parameter can be combined with /datadir, e.g. "C:\ISUCalcFS\ISUCalcFS.exe /backup /datadir:wc09"

3.2 Database

ISUCalcFS uses codebase database files to save the data. All files of one database are saved in one folder. The data are saved in different DBF files. For every DBF file there is a corresponding CDX index file. If the CDX file does not exist, it will be recreated during the start of ISUCalcFS. The most important master data files are: ELM, ELL, DGR – elements, PCT, PEL, BST – persons with planned elements and personal bests.

A user can create multiple databases and can select the database during the start process. Copy or backup a database by copying the complete database folder. We recommend turning off ISUCalcFS for this procedure.

1. Create a new database with the following steps:
2. Create a new folder
3. Start ISUCalcFS with /select parameter. The program creates an empty database.
4. Import element master data. (elm1213.xml)
5. Restart ISUCalcFS.exe
6. If available: export master data of a different database to xml files and import these into the new database: athletes, couples, clubs, nation, verification rules

4 MENU REFERENCE

The following table represents the application's main menu structure.

Basic Data	Event Data	Run Competition
Competitors Single Couples Teams Officials Nations Clubs --- Elements Difficulty Groups	Event Categories Segments Time Schedule Participants Officials Starting Order Warm Up Groups Set Default Event	Start Manual Entry Start Entry with Scoring System --- Reconnect to Scoring System Resend data to Scoring

Output	Special	Help	Exit
Entries Judges Starting Order Judges Sheets Results Protocol Evaluation Calculation Setup Warmup Printer	Exchange with XML Export Event Export Category Export Segment Master Data Import Export to HTML Entire Event Event Overview Entries Starting Order Officials Results Detailed Classification Backup Data Recalc Category Edit Ini File Reorganize database Erase Scores Customized Program Verification Personal Best Update Personal Best Delete Seasons Best Batch Print	Contents About	

5 GETTING STARTED...

See section 7.1 Appendix A - Fast path event setup and procedures and section 7.2 Appendix B – Outputs for a checklist to setup a competition.

6 WINDOWS REFERENCE

6.1 Setup of a competition

6.1.1 Working with events

To create a new event or to modify data choose "Event Data">"Event" from the menu bar. The following window appears:

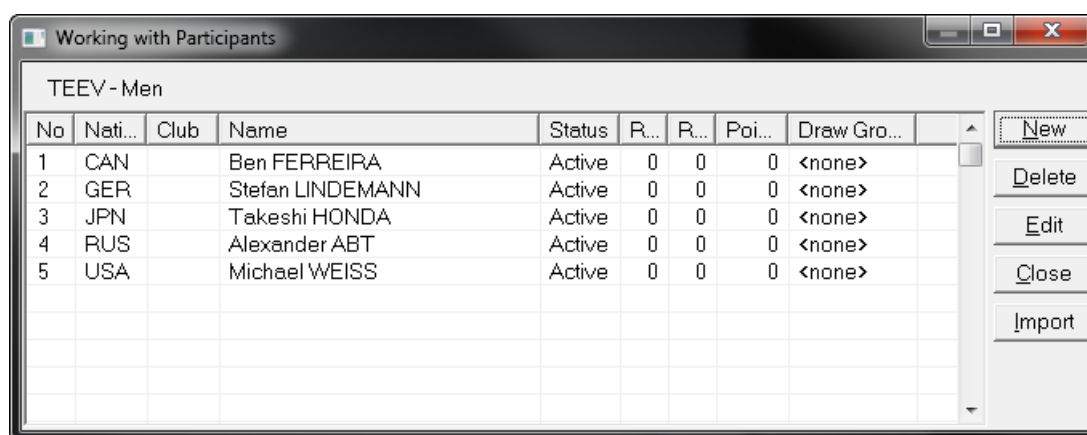


Figure 4 - Working with participants

Button: **New** - Create a new event

Button: **Delete** - Delete event

Button: **Change** - Edit event setup

Button: **Close** - End selection

6.1.2 Edit event

To describe an event, enter the information in the following window:

Figure 5 - Edit event

Field: Event	Long name for event, official name
Field: List Name	Long name for event as headline for lists, can be left blank if the documentation has a prepared headline
Field: Place	Place of the competition
Field: Date from	Begin of the competition, format: system short date format
Field: Date to	End of the competition, format: system short date format
Field: Rink Name	Name of the arena
Field: Rink Size	Width and length of the rink
Field: Ice Conditions -	usually "very good" or "good"
Button: Representative	Select ISU Representative from the list, if "undefined", you can create a new name in the window "generic search routine"; only used for scoreboard.
Button: Technical Delegates	Selecting the technical delegates of this competition from the list, if "undefined", you can create a new name in the window "generic search routine"; only used for scoreboard.
Field: Sponsor Line	Here you can enter "Service by..." for example.
Fields: Diploma Title	Three lines of text for the title of the diplomas
Field: Short Name	Short name for the event used for lists in the program
Field: Status	Status of the event only used for HTML (Internet) outputs
Field: Comp. Type	Competition type.
Field: Calculation	Calculation mode for determining the results
Field: Printing Language	Select language for Outputs (e.G. Printed Reports)
Field: Nation Text	Set nation text
Field: External data	Field to link the event to an external system
Field: Reg. No.	Registration number: Field to link to external database
Button: OK	Enter changes and return to previous window
Button: Cancel	No action and return to previous window

6.1.3 Working with categories

Open the following screen by selecting Categories from the Event Data menu. The headline shows the List Name of the competition. Now you can either choose an existing category, you can change it, or you can create a new category.

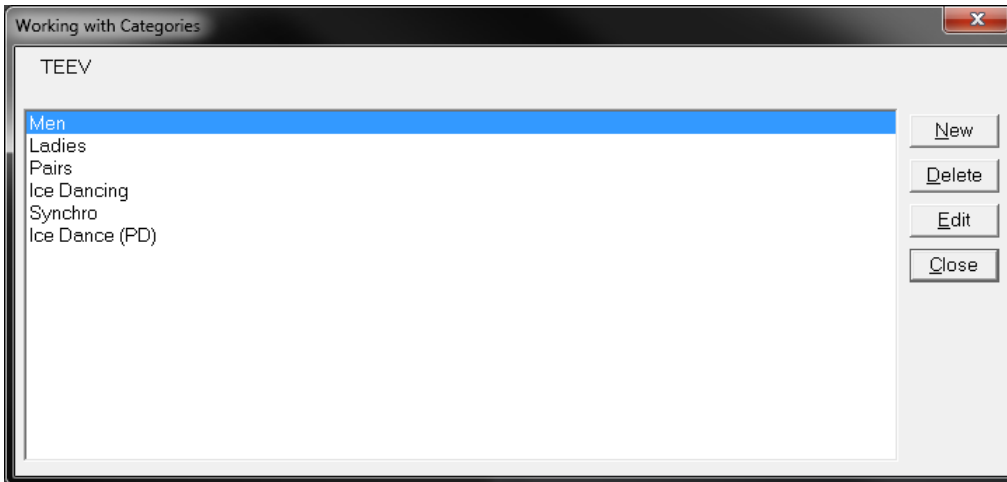


Figure 6 - Working with categories

The headline shows the List Name of the event.

Button: **New** - Creates a new category

Button: **Delete** - Deletes category

Button: **Change** - Edits category setup

Button: **Close** – Exits dialog

6.1.4 Edit category

If you want to create or change a category, please select the menu Event Data - Categories and choose an event. The following window appears:

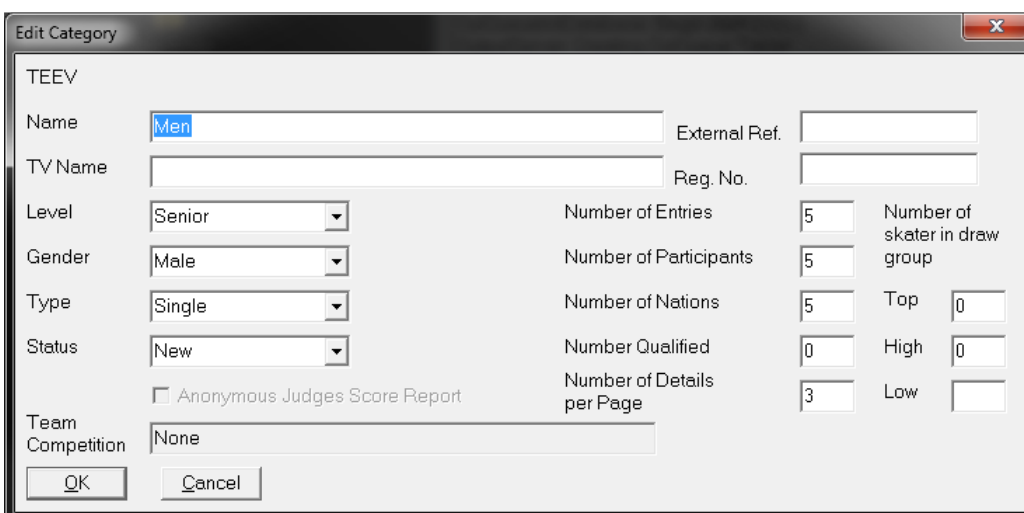


Figure 7 - Edit category

The headline shows the List Name of the event.

Field: **Name** - Name of the category, headline of the judges' sheets or result sheets. For competitions with different levels or groups, please add the level and the group in this field, e.g. Senior Men, Novice Ladies

Field: **TV Name** - Name of the category for TV Inserts

Field: **Level** - Select the level of the competition

Field: **Gender** - Select the gender of the competitors in this category

Field: **Type** - Select the type of competition

Field: **Status** - Define the status of the category (used for Internet outputs)

Field: **External Ref.** - Field to link category to an external system

Field: **Reg. No.** - Registration number: Field to link to external database

Field: **Number of Entries** - Total number of announced competitors in this category (filled automatically by entering participants)

Field: **Number of Participants** - Total number of drawn competitors in this category (filled automatically by entering participants)

Field: **Number of Nations** - Number of ISU members participating (filled automatically by entering participants)

Field: **Number Qualified** - Number of competitors qualified for the final

Field: **Anonymous Judges Score Report** – Activates random judge order on printouts

Button: **OK** - Commit changes and return to the previous window

Button: **Cancel** - No action and return to the previous window

6.1.5 Working with segments

If you want to create or edit a segment, please select the menu Event Data - Segment and choose an event and a category. The following window appears:

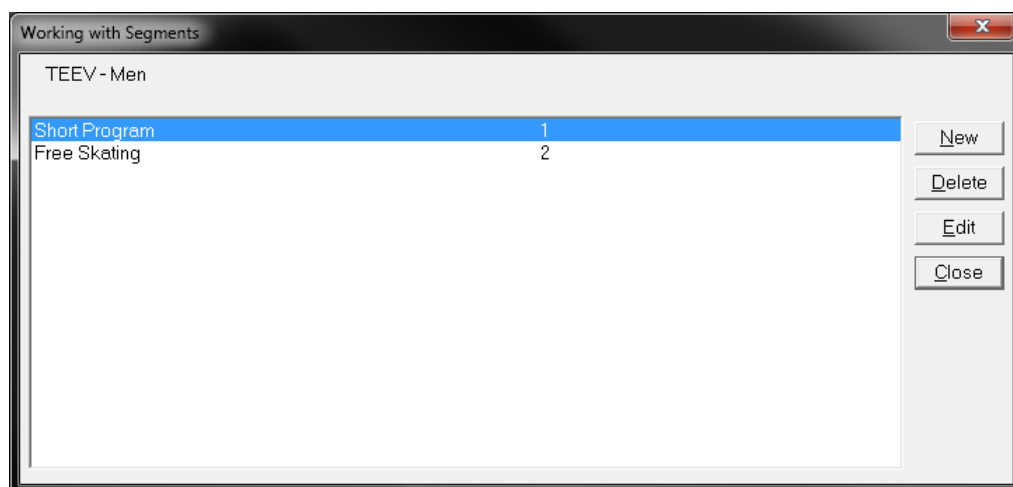


Figure 8 - Working with segments

The headline shows the short name of the event and the category. The number in the right column shows the "Number within category".

Now you can either choose an existing segment, you can change it, or you can create a new segment.

A maximum number of six (6) segments can be entered.

Button: **New** - Creates a new segment

Button: **Delete** - Deletes Segment

Button: **Edit** – Edits segment setup

Button: **Close** – Exits dialog

6.1.6 New segment

If you want to create a segment, press New in the Working with Segment window, then the following window appears:



Figure 9 - New competition segment

Button: **OK** – Opens the Edit segment dialog and inserts the default values according the chosen segment type.

Button: **Cancel** - No action and return to previous window

6.1.7 Edit segment

If you want to change a Segment, please select the menu Event Data - Segment, choose an event and a category. The following window will appear:

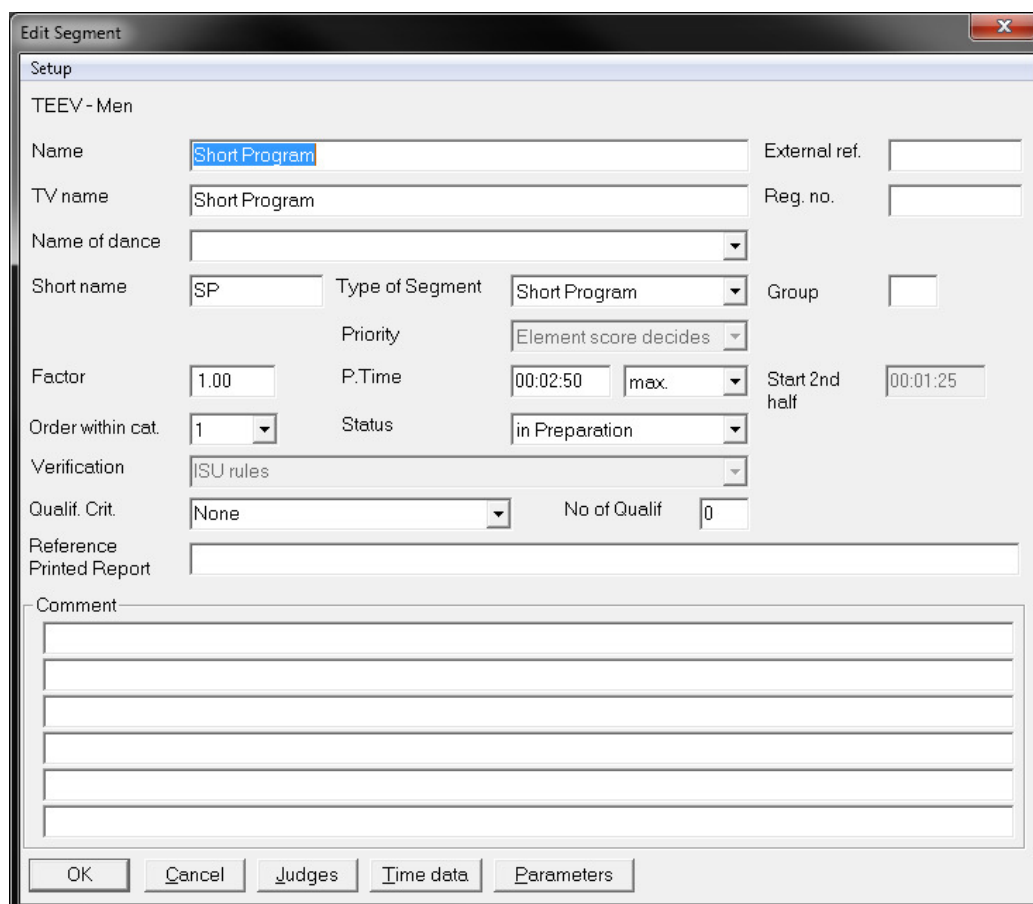


Figure 10 - Edit segment

The headline shows the short name of the event and the category.

Field: **Name** - Name of segment

Field: **External Ref.** - Field to link the segment to an external system

Field: **TV Name** - Name of segment passed to TV

Field: **Reg. No.** - Registration number: Field to link to external database

Field: **Name of Dance** - Select a Dance for Ice Dancing – Pattern Dance with or without Keypoints procedure only

Field: **Short Name** - Abbreviation of this Segment, used in the lists of this program

Field: **Type of Segment** - Please select the type of the Segment

Field: **Group** - Group indication must match the group indication in the participant entry (used in qualifying events), e.g. "A"

Field: **Priority** - Please select the priority of the scores

Field: **Factor** - Factor of Segment. Default value 1.0

Note: The default value 1.0 applies to short program, free skating, compulsory dance (senior and junior level), original dance and free dance. If there are 2 pattern dances in the category, the factor should be 0.5 for both segments.

Field: **P. Time** - Program time in hh:mm:ss

Field: **2nd half** – Start of the 2nd half of the program, format: hh:mm:ss

Field: **Order within Cat.** - Position of segment in the category

Field: **Status** - Status of the segment (used for Internet output)

Field: **Verification** – There are three types of verification:

- Verification according ISU rules (default). The technical panel checks the verification of the program.
- No verification of the elements, the technical panel is checking the verification of the elements.
- customized verification. See section 6.4.8 for the definition of customized verification rules.

Field: **Qualif. Crit** – Select qualification rule

Field: **No of Qualif** – Enter the number of qualification entries

Field: **Comment** - Here you can enter special comments.

Button: **OK** – Saves changes and returns to previous windows

Button: **Cancel** - No action and return to previous window

Button: **Judges** - Entry of judge's panel

Button: **Time Data** - Data entry of time data

Button: **Parameters** – parameters for calculation (program components, deductions)

6.1.8 Edit panel of judges

If you want to create the panel of judges, please select the menu Event Data – Segment, choose an event and a category. If you have selected the Segment (with a double-click), you will find a Judges button in this window.

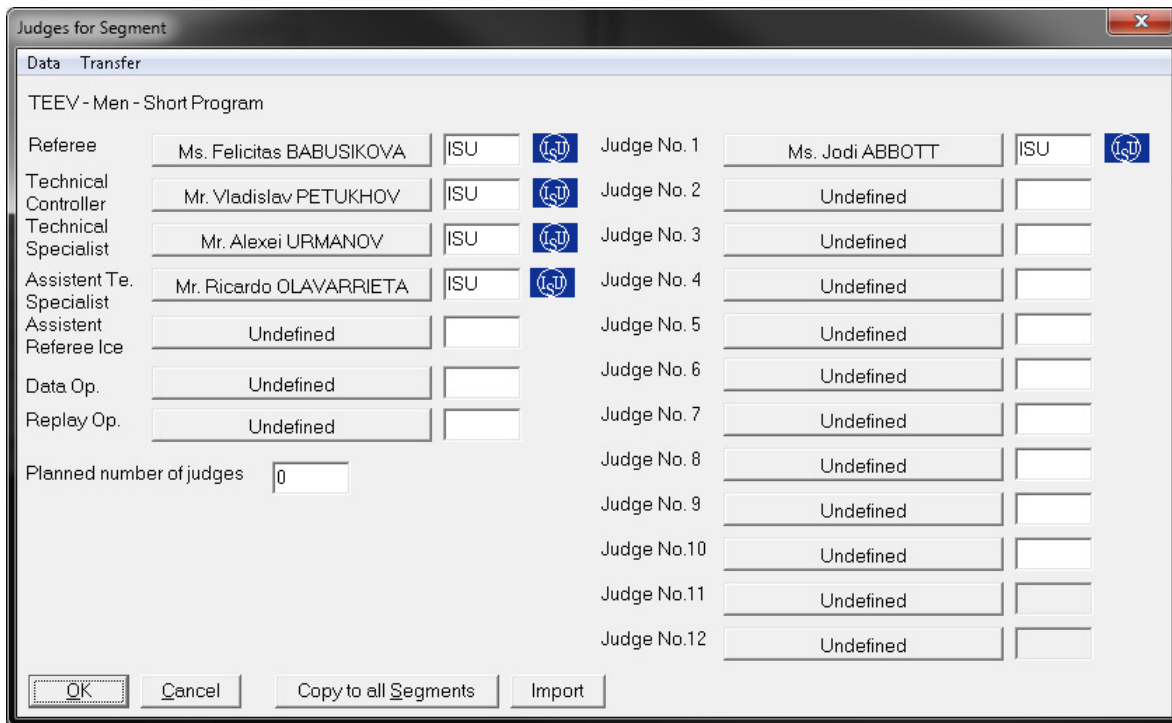


Figure 11 - Judges for segment

The headline shows the List Name of the event and the category.

Buttons: **Referee, Technical Controller, Technical Specialist, Assistant Technical Specialist, Assistant Referee Ice, Data Op., Replay Op. Judge No** - Select the official from the list, if "undefined", you can create a new name in the window.

Button: **Copy to all Segments** – Copies the panel to all (previous, current and following) segments. If there is already a panel assigned, you have to confirm.

Field: **Planned number of judges** – Enter planned number of judges

Button: **Import** – Imports the Judge setup of another segment

Button: **OK** - Commit changes and return to previous windows

Button: **Cancel** - No action and return to previous window

Note: An event can be run with any numbers of judges between 1 and 10. It is possible that some judges enter the GOE of the technical elements only and some just enter the scores for the program components. In calculation the trimmed mean of the is applied in the following way:

Number of judges in the panel	Trimming	Judges left in the mean calculation
10	2	8
9	2	7
8	2	6
7	2	5
6	2	4
5	2	3

Number of judges in the panel	Trimming	Judges left in the mean calculation
4	0	4
3	0	3
2	0	2
1	0	1

6.1.9 Editing time schedule of segment

If you want to create the time schedule, please select the menu Event Data – Segments, choose an event and a category. If you have selected the Segment (with a double-click), you will find a [Time Data] button in this window.

Figure 12 - Edit time schedule

The headline shows the List Name of the event and the category.

Field: **Description** – Additional Description

Field: **Group** – Select a later Draw Group

Field: **Begin later group** – Starting time of the later group

Field: **Later group after WG** – Later group is starting after warmup group

Field: **Num. Part.** - Number of participants for calculation without names.

Field: **Date** - Date of segment, format: system short date format

Field: **Begin** - Competition Start, format: hh:mm:ss

- Field: **Warm up** - Period of time for one warm-up group, format: hh:mm:ss
- Field: **Introduction** - Period of time for an individual introduction of the skater before the warm-up, format: hh:mm:ss
- Field: **Performance** - Period of time for the performance, format: hh:mm:ss
- Field: **Add. time last group** – additional time for skaters in the last warm-up group. Can be used by TV for longer replays. format: hh:mm:ss
- Field: **Judging First** - Period of time for the first judging in this Segment, format: hh:mm:ss
- Field: **Judging during Warm up** - Please check, if judging is allowed during the next warm-up group (important for the time calculation), format: hh:mm:ss
- Field: **Judging Last** - Period of time for all other judging in this Segment, format: hh:mm:ss
- Field: **Prep. VC** - Period of time for the preparation of the victory ceremony, format: hh:mm:ss
- Field: **Victory Cerem.** - Period of time needed for the victory ceremony
- Field: **Resurface** - Period of time needed for resurfacing the ice, format: hh:mm:ss
- Field: **End** - Calculated time at which this Segment ends
- Field: **Warm-up Groups** - Warm-up group sizes
- Fields: **Ice Resurfacing – IR after W Group** - Please enter the group number after which an ice resurfacing should be made.
- Fields: **Ice Resurfacing – IR Duration (MM:SS)**
- Enter separate duration times for each Resurfacing group. To set the default duration time from Field “Resurface” click button [Default IR. Duration]
- Button: **Calc. Timing** - If you click on this button, you will get the calculated end time of the Segment. This allows you to print time schedules.
- Button: **Print with N.** - If you click this button, you will get the detailed time schedule with the names of the participants.
- Button: **Print without N.** - If you click this button, you will get the detailed time schedule only with participant numbers.
- Field: **Status** – Selects a status of the actual time schedule/segment
- Button: **OK** - Commit changes and return to previous windows
- Button: **Cancel** - No action and return to previous window

6.1.10 Calculation parameters of segment

If you want to edit program components or the deductions of a segment, please select the menu Event Data – Segment, choose an event and a category. If you have selected the segment (with a double-click), you will find a Parameter button in this window.

Default parameters are set according ISU rules, during creating the segment. If there are no special regulations for the competition, please leave the default values.

Calculation parameter in segment

TEEV - Men - Short Program

Technical Elements
 Credit for even distribution of difficulties in the program Factor for Jumps in 2nd half of the program (format 1.1)
 Factor base value Ice Dance combo lifts (format 1.10)

Program Components	Short	Factor (format 1.75)	Deductions	Factor (format 1.75)	Entered by	Values	
Component 1	Skating Skills	SS	Deduction 1	Costume/Prop violation	1.00	Majority	0-1
Component 2	Transitions	TR	Deduction 2	Time violation	1.00	Referee	0-1-2-3-4-5-6
Component 3	Performance/Execution	PE	Deduction 3	Music violation	1.00	Majority	0-1
Component 4	Choreography	CH	Deduction 4	Illegal element/movement	1.00	Techn Pane	0-2-4-6
Component 5	Interpretation	IN	Deduction 5	Falls	1.00	Techn Pane	0 Dec Inc (-1 per step)
Component 6		0.00	Deduction 6	Interruption in excess	1.00	Referee	0-1-2-3-4-5-6
Component 7		0.00	Deduction 7		0.00	none	none
Component 8		0.00	Deduction 8		0.00	none	none
Component 9		0.00	Deduction 9		0.00	none	none
Component 10		0.00	Deduction 10	Costume failure	1.00	Referee	0-1
General component factor (format: 1.0) <input type="text" value="1.0"/>			Deduction 11		0.00	none	none
Note: Every component factor will be multiplied with the general factor.			Deduction 12		0.00	none	none
Majority deduction indices <input type="text" value="1"/> <input type="text" value="3"/>			Deduction 13		0.00	none	none
			Deduction 14		0.00	none	none
			Deduction 15		0.00	none	none
			Deduction 16		0.00	none	none
			Deduction 17		0.00	none	none

Checksum setup Checksum element table

OK Cancel Set default values Calc Checksum

Figure 13 - Calculation parameter in segment

The headline shows the name of the category and the segment.

Fields: **Components** – name of program components, up to 10 components can be setup

Note: If ISUScore2FS is used to enter the scores, please do not change the order of the default components.

Fields: **Short** – shortcut of the program component name

Fields: **Factor** – factor of the component in the segment

Field: **General component factor** – factor is used for all components in the segment

Note: During the calculation every component is multiplied with both factors, the individual and the general factor.

Field: **Factor Jumps 2nd half** – factor for jumps executed in the 2nd half of the performance (Factor 1.1 for pairs and Single Free Skating). Default value is 1.00. If no bonus is applied to the jumps in second half set 1.00.

Field: **Factor base value Ice Dance combo lifts (format 1.10)** – Enter factor for Ice Dance combo Lift bonuses scored to its base values

Fields: **Deductions** – name of the deductions, up to 10 deduction types can be setup.

Fields: **Factor** – factor of the deduction

Fields: **Entered By** – Select the official who is authorized to enter the specific deduction

Fields: **Values** – Value pattern for each deduction

Fields: **Checksum setup** – checksum of segment setup

Fields: **Checksum element table** – checksum of elements in segment

Note: If ISUScoreFS is used to enter the scores and deductions, please do not change the order of the default components and deductions.

Button: **Set default value** – resets all values according to ISU rules

Button: **Calc Checksum** – calculates checksums of segment setup with current parameter.

Fields: **Majority deduction indicies** – Indicies in the dialog of the 2 deductions which will be shown under the Element list in the Running Segment

Button: **OK** – saves changes and return to previous windows

Button: **Cancel** - No action and return to previous window

Data of the dialog are only saved to the database after pressing Ok in this and the Edit Segment dialog.

Checksum segment setup

This checksum gives an easy way to compare the calculation parameter of the segment to a pre-defined setup.

It is calculated with the following values: segment factor, factor jumps 2nd half, start time 2nd half, component names (capitalized), general component factor, component factors, deduction names (capitalized), deduction factors, type of verification (None, ISU rules, Customized rules).

Print the Competition setup report to list all parameter and the checksum.

Checksum element table

This checksum gives an easy way to compare the element table of a segment to a pre-defined setup.

The checksum includes only elements which apply to the segment and got a base value greater then zero (0).

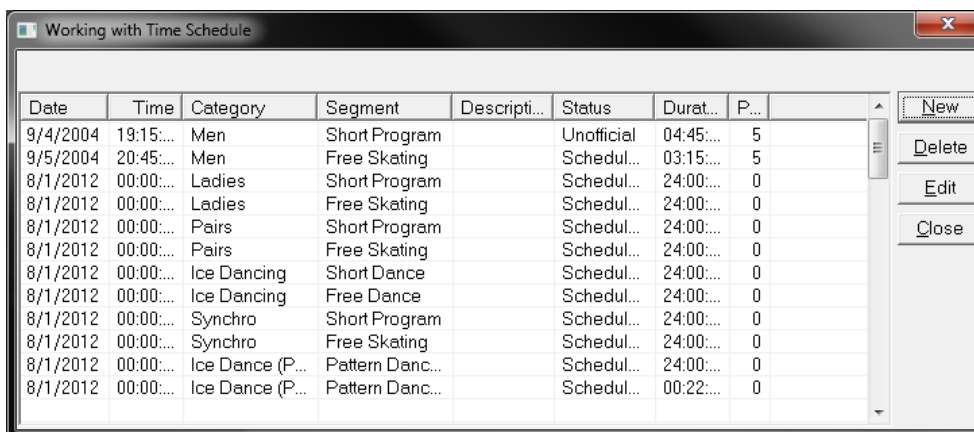
These elements are sorted by abbreviation. The checksum is calculated with the following values of every element: abbreviation (capitalized), base value, GOEs.

The checksum is displayed on the Competition setup report.

6.1.11 Working with time schedule

Another way of entering the time data is through Event data - Time Schedule.

This list gives an overview of all time calculations for a given event. The details are the same as Segment, Time Data.



Date	Time	Category	Segment	Descripti...	Status	Durat...	P...
9/4/2004	19:15:...	Men	Short Program		Unofficial	04:45:...	5
9/5/2004	20:45:...	Men	Free Skating		Schedul...	03:15:...	5
8/1/2012	00:00:...	Ladies	Short Program		Schedul...	24:00:...	0
8/1/2012	00:00:...	Ladies	Free Skating		Schedul...	24:00:...	0
8/1/2012	00:00:...	Pairs	Short Program		Schedul...	24:00:...	0
8/1/2012	00:00:...	Pairs	Free Skating		Schedul...	24:00:...	0
8/1/2012	00:00:...	Ice Dancing	Short Dance		Schedul...	24:00:...	0
8/1/2012	00:00:...	Ice Dancing	Free Dance		Schedul...	24:00:...	0
8/1/2012	00:00:...	Synchro	Short Program		Schedul...	24:00:...	0
8/1/2012	00:00:...	Synchro	Free Skating		Schedul...	24:00:...	0
8/1/2012	00:00:...	Ice Dance (P...	Pattern Danc...		Schedul...	24:00:...	0
8/1/2012	00:00:...	Ice Dance (P...	Pattern Danc...		Schedul...	00:22:...	0

Figure 14 - Working with time schedule

The headline shows the short name of the event.

Button: **New** - Create new time schedule entry

Button: **Delete** - Delete time schedule entry

Button: **Edit** - Edit time schedule entry

Button: **Close** - End selection

6.1.12 Working with participants

If you want to assign a competitor to a category or change a participant, please select the menu Event Data – Participants, choose an event and a category. The following window appears:

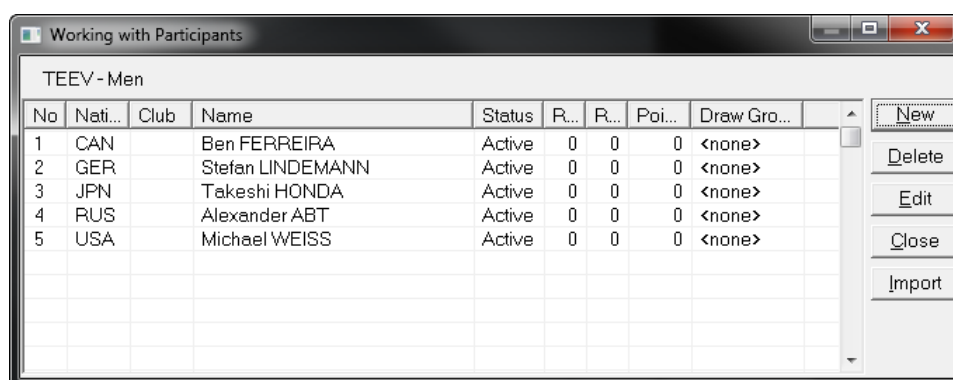


Figure 15 - Working with participants

The participants are sorted by nation. Now you can choose an existing participant or change it, or you can create a new one.

The maximum number of participants in one category is 100.

The headline shows the List Name of the event and the category.

Button: **New** – Add new competitor to the participant list

Button: **Delete** - Delete competitor from the participant list

Button: **Change** – Edit participant entry

Button: **Close** – Exit dialog

Button: **Import** – Import participants from another category

The user can sort the entries after closing the window. Sort criterias are applied in the following order:

1. Nation (nation sort order field), if activated
2. Club abbreviation, if activated
3. Family name
4. Given name

The nation and club criteria can be activated or deactivated in the Ini file. When both sort criterias are null the participant entries are sorted by only family name and given name

```
[General]:  SortEntriesByNation=0
           SortEntriesByClub=0
```

6.1.13 Edit participant

If you want to create or change a participant, please select the menu Event Data – Participants, choose an event and a category. Then click the New or Change button in the window above. The following window appears:

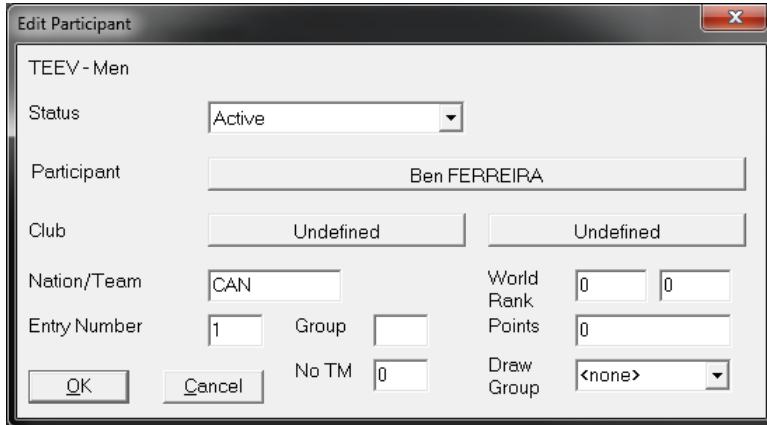


Figure 16 - Working with participants

The headline shows the List Name of the event and the category.
Field: **Status** - Select the status of the participant

Active	
Withdrawn	Skater withdraws before or during the competition. Was already in the start list of one segment in category.
Final not reached	Skater did not qualify for the final segment.
Not Qualified	Skater did not advance from qualification round.
Disqualified	
Entry withdrawn	Skater withdraws before the first draw. Was never listed in a start list in the category.

Button: **Participant** - Select the name of the participant. If "undefined", you can create a new name in the window "generic search routine".

Buttons: **Club** - Select a club. If necessary, it can be different for couples. If "undefined", you can create a new name in the window "generic search routine".

Field: **Nation/Team** - Nation of participant if there are teams in this competition you can enter the team identification in this field.

Field: **Entry Number** - If you have participants with fixed places for the drawings, you can enter them in this field.

Field: **Group** - Group indication is related to the group indication in the segment entry (used in qualifying events)

Fields: **World Rank** – World standings

Field: **Draw Group** – Shows the Draw Group for starting order

Button: **OK** - Commit changes and return to previous windows

Button: **Cancel** - No action and return to previous window

After pressing **OK**, the program asks you whether to sort entries. The entries will be sorted by the ISU Sort field in the Nation database and by the club abbreviation for national competitions.

6.1.14 Working with officials

To enter an official, you have to select the menu Event Data – Officials and choose an event. The following window appears:

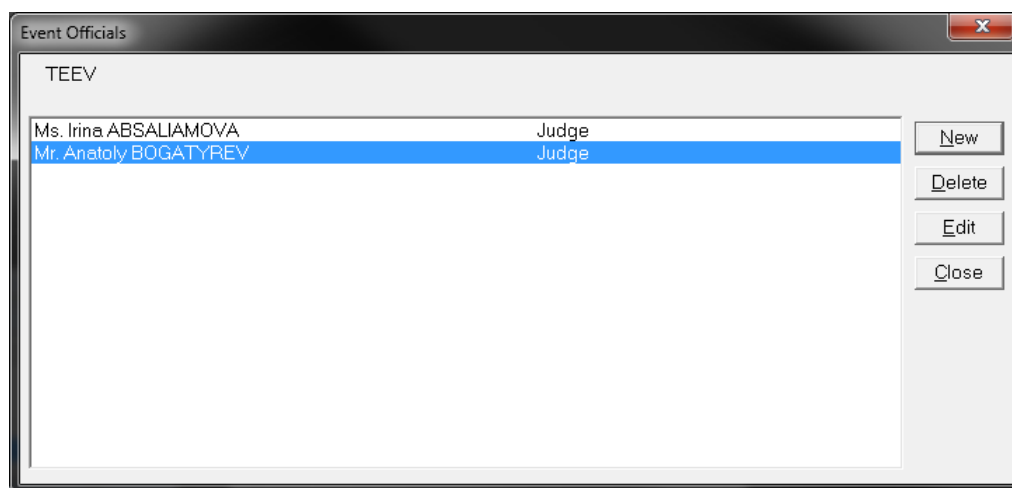


Figure 17 - Working with officials

Button: **New** – Adds an official to the list

Button: **Delete** - Deletes list entry

Button: **Change** – Edits official data

Button: **Close** – Closes window

6.1.15 Edit officials in event

If you want to create or change an official, please select the menu Event Data – Officials, choose an event. Then click the New or Change button in the window above. The following window appears:

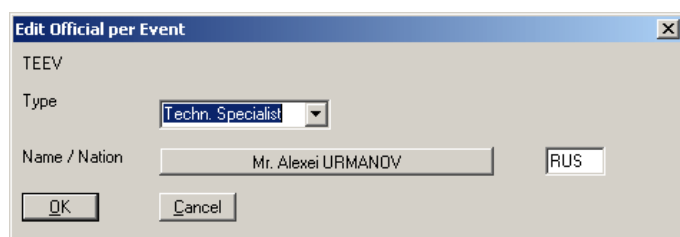


Figure 18 - Edit officials per event

Field: **Type** - Type of official (e.g. Technical Delegate, Referee, Judge)

Button: **Name** - Link to Basic Data Judge

Field: **Nation** - Representing nation

Button: **OK** – saves changes and return to previous windows

Button: **Cancel** - No action and return to previous window

6.1.16 Enter starting order

To enter a starting order you have to select the menu Event Data - Starting Order, choose an event, a category and a segment. The following window appears:

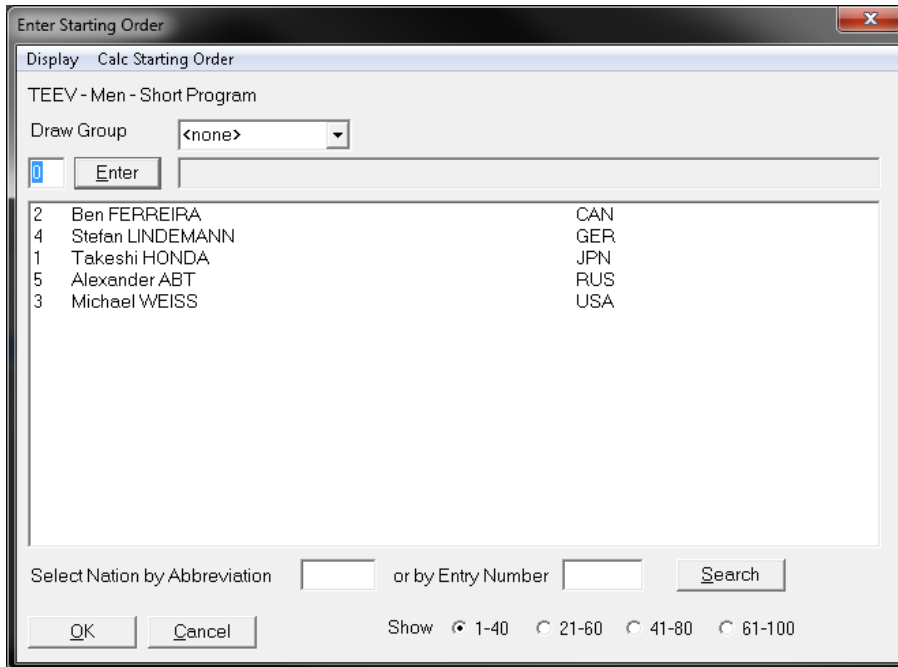


Figure 19 - Enter starting order

The competitors are sorted by entry number for the first segment or the first segment after qualification segments. They are sorted according to the intermediate result in following segments.

The text field shows the selected participant.

In the field below, you have to enter the starting number and to confirm it with the Enter button. The cursor jumps to the next participant.

Menu: **Display** → **Starting Order** – Shows starting order presentation screen

Menu: **Display** → **Results** – Shows starting order presentation screen with Result informations

Menu: **Display** → **Entries** – Shows starting order presentation screen with Entries

Menu: **Display** → **Judges** – Shows presentation screen with the judges

Menu: **Calc Starting Order** → **Random** – Calculates random starting numbers over all participants

Menu: **Calc Starting Order** → **Reverse To Result** – Calculates starting numbers over all participants reverse to its results from the Short Program

Menu: **Calc Starting Order** → **Reset** – Resets the Starting Order of all participants to null

Menu: **Calc Starting Order** → **Reset current group** - Resets the Starting Order of all participants in the current selected draw group to null

Area: Select Nation by Abbreviation or by Entry Number – Search participants in the startlist table by nation code or Entry number

Area: Show – Lists only a part of all participants

Button: **OK** – saves changes and return to previous windows

Button: **Cancel** - No action and return to previous window

6.1.17 Enter warm-up groups

To change the number of competitors in each warm up group manually, please select the menu Event Data - Warm up Groups, choose an event, a category and a segment. The following window appears:

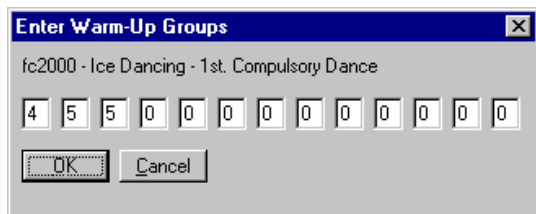


Figure 20 - Enter starting order

You can enter the number of competitors for each warm up group in the fields.

Button: **OK** - Commit changes and return to previous windows

Button: **Cancel** - No action and return to previous window

6.1.18 Set default event

Select event, which is the default event.

6.1.19 Random judges draw

Only applicable for Grand Prix events, international ISU Championships and the Olympic Winter Games.

6.2 During the competition

6.2.1 Run competition

To calculate the results of a competition, you have to enter the marks first. Therefore, you have to select the Run Competition - Start Manual Entry menu, choose an event, a category and a segment.

If you enter data with a scoring system, choose Run Competition - Start Entry with scoring system menu.

Note: ISUCalcFS accepts data by the scoring system only after a competition was open. I.e. entered elements of the expert are not shown in the judge's panel when no competition was open.

Then you have to select the participant you want to start with. The following window appears:



Figure 21 - Select participant

After selecting the current participant, the following window appears:

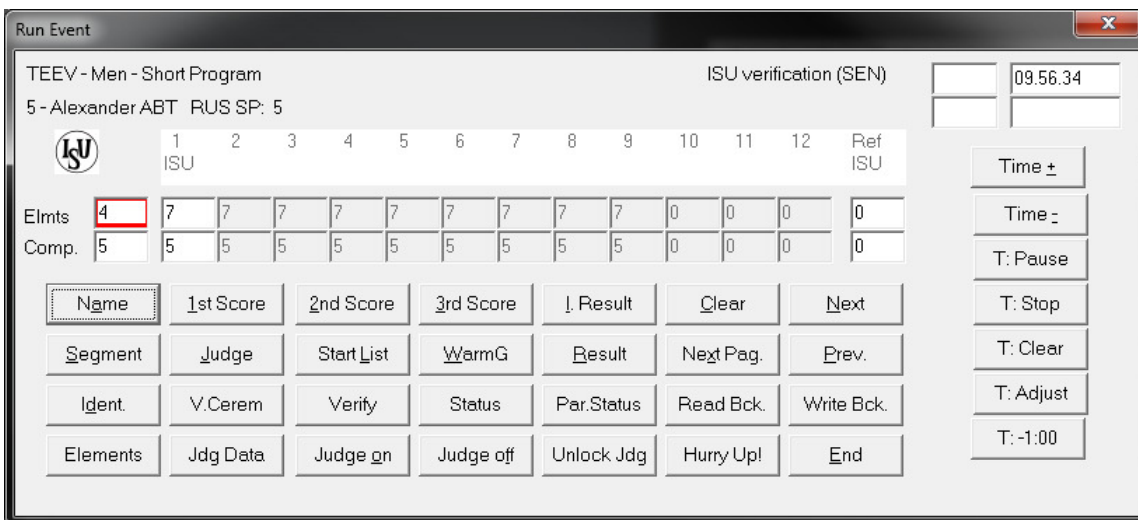


Figure 22 - Run event

The first headline shows the shortcut of the event, the category and the segment. On the right side the type of verification is shown.

The second headline shows the starting number, name, nation and current rank of the selected participant.

Fields: **Elmts** (Technical Elements) – The first field shows the number of elements of the skater. The following fields show the number of entered scores by judges.

If the first field gets green, the Technical Controller confirmed the elements for the performance.

After a judge entered all scores he confirms the scores. The element field gets green if the number of entered scores matches the number of elements and components. If the numbers don't match the field gets yellow.

After the calculation, the first field gets red. Now, the data are locked and the Technical Panel and the judges can not enter data anymore.

Fields: **Comp.** (Program Components) – The first field shows the number of components in the segment. The following fields show the number of entered scores by judges. These numbers should match the number in the first field.

Button: **1st Score** – Calculate the result

Button: **Next** – Switch to the next competitor

Button: **Prev** – Switch to the previous competitor

Button: **Time +** - Start a forward-running clock

Button: **Time -** - Start a backward-running clock

Button: **T: Pause** – Time stops. Can be started again.

Button: **T: Stop** – Time stops

Button: **T: Clear** – Resets the time

Button: **T: Adjust** – add or subtract time of the rolling time. Can be changed before the start or when clock is paused.

Button: **Elements** – Enter/edit performed elements, bonus and deductions

Button: **Jdg Data** – Enter/edit scores of the judges

Button: **Judge on** - Judges panels are turned on

Button: **Judge off** - Judges panels are turned off. When closing the Run Event screen after the last skater, the judge's panels are turned off automatically.

Button: **Lock Jdg** – Locks and unlocks data entry by judges. If the data entry is locked, the Element field turns red. After calculation, the data entry is locked automatically.

Button: **End** – Exit the competition.

All other buttons are used to control external output devices with the OSIS interface.

Button: **Name** - Display Name of the competitor

Button: **1st Score** – Calculates the performance results and shows the technical elements score on the scoreboard

Button: **2nd Score** - show program components score

Button: **3rd Score** - show total segment score and rank in segment

Button: **I. Result** - Show intermediate result

Button: **Clear** - Clear scoreboard

Button: **Ident.** - Show sponsor logo

Button: **Segment** - Show segment information on devices

Button: **WarmG** - Show warm-up group

Button: **Start List** - Show start list

Button: **Judge** - Introduce judges one by one by selecting each from a special window.

Button: **Result** - Show results

Button: **Next Result** - Show next page of results

Button: **V.Ceremony** - Show medal winners

Button: **Seg.Stat** - Change status of segment

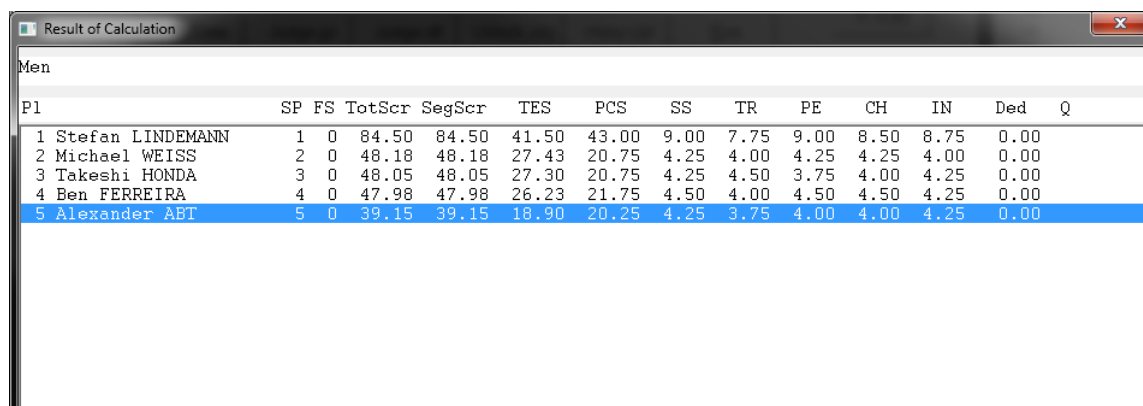
Button: **Par.Stat** - Change participant status

Button: **Read Bck.** – Read a backup file (tlo file). Import folder can be set in the Ini file.

Button: **Write Bck.** – Write a backup file (tlo file) with the scoring information of the current competitor. Export folder can be set in the Ini file.

Button: **Verify** – Verify the performed program according the setting in segment setup

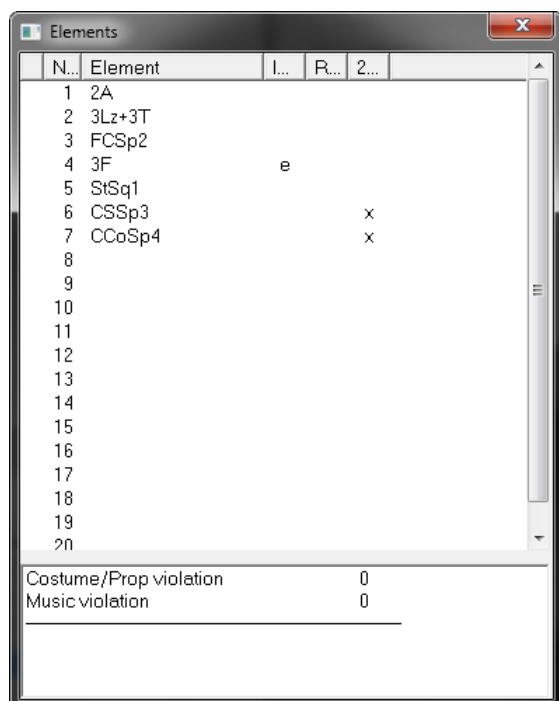
The result window shows the ranking in the category. The current competitor is highlighted. Listed information: total rank, name, ranking in segments, total score, segment score, Technical Element Score (TES), Program Component Score (PCS), score of each program component, sum of general deduction



Pl	SP	FS	TotScr	SegScr	TES	PCS	SS	TR	PE	CH	IN	Ded	Q
1	Stefan LINDEMANN	1	0	84.50	84.50	41.50	43.00	9.00	7.75	9.00	8.50	8.75	0.00
2	Michael WEISS	2	0	48.18	48.18	27.43	20.75	4.25	4.00	4.25	4.25	4.00	0.00
3	Takeshi HONDA	3	0	48.05	48.05	27.30	20.75	4.25	4.50	3.75	4.00	4.25	0.00
4	Ben FERREIRA	4	0	47.98	47.98	26.23	21.75	4.50	4.00	4.50	4.50	4.25	0.00
5	Alexander ABT	5	0	39.15	39.15	18.90	20.25	4.25	3.75	4.00	4.00	4.25	0.00

Figure 23 - Result of calculation

The following window shows the elements and the deductions of the current competitor.



N...	Element	I...	R...	2...
1	2A			
2	3Lz+3T			
3	FCSp2			
4	3F	e		
5	StSq1			
6	CSSp3			x
7	CCoSp4			x
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
Costume/Prop violation			0	
Music violation			0	

Figure 24 - List of elements

After the verification of the program, elements that are not in accordance with the program requirements or well-balanced program are marked with a "*", e.g. 2A*.

6.2.2 Edit elements of the current competitor

The Edit Elements window can be opened by pressing [Elements] button in the Run Event dialog.

Element No.	Ins	Elements (format: 3A+2T+SEQ)	Time Code (1.23)	2nd Element Half Deduction	Bonus (format: 2.00)
1	<input type="checkbox"/>	2A Double Axel	0.18	<input type="checkbox"/>	0.00
2	<input type="checkbox"/>	3Lz+3T Triple Lutz+Triple Toeloop	0.37	<input type="checkbox"/>	0.00
3	<input type="checkbox"/>	FCSp2 Flying Camel Spin 2	0.50	<input type="checkbox"/>	0.00
4	<input type="checkbox"/>	3F Triple Flip	1.15	<input type="checkbox"/>	0.00
5	<input type="checkbox"/>	StSq1 Step Sequence 1	1.20	<input type="checkbox"/>	0.00
6	<input type="checkbox"/>	CSSp3 Change Foot Sit Spin 3	2.04	<input checked="" type="checkbox"/>	0.00
7	<input type="checkbox"/>	CCoSp4 Change Foot Combination Spin 4	2.29	<input checked="" type="checkbox"/>	0.00
8	<input type="checkbox"/>			<input type="checkbox"/>	0.00
9	<input type="checkbox"/>			<input type="checkbox"/>	0.00
10	<input type="checkbox"/>			<input type="checkbox"/>	0.00
11	<input type="checkbox"/>			<input type="checkbox"/>	0.00
12	<input type="checkbox"/>			<input type="checkbox"/>	0.00
13	<input type="checkbox"/>			<input type="checkbox"/>	0.00
14	<input type="checkbox"/>			<input type="checkbox"/>	0.00
15	<input type="checkbox"/>			<input type="checkbox"/>	0.00
16	<input type="checkbox"/>			<input type="checkbox"/>	0.00
17	<input type="checkbox"/>			<input type="checkbox"/>	0.00
18	<input type="checkbox"/>			<input type="checkbox"/>	0.00
19	<input type="checkbox"/>			<input type="checkbox"/>	0.00
20	<input type="checkbox"/>			<input type="checkbox"/>	0.00

Figure 25 - Edit elements

The dialog lists the performed elements of the skater.

An element field is red, when the base value is zero. Possible reasons are: element shortcut is incorrect, level of the element missing, element is invalid after verification.

Field: **Time Code** – time when the element was performed (format 2.05). The time code is not used to order the elements.

Field: **2nd Half** – Check for the first element which was performed in the 2nd half of the program. All following boxes are checked automatically.

Time Code and 2nd Half are two alternative ways to assign an element to the second half. During the calculation the time code field is checked first. If it is empty the 2nd Half field is used.

Element deduction: open a dialog to enter element deductions or en element bonus. The button label shows the sum of the entered values.

Field: **Bonus** – bonus for innovative elements

Deduction fields: for setup of deductions see section 6.1.10.

Field: **Ready** – Is checked, after the elements are confirmed by the Technical Panel.

Button: **Save+Check** – Saves and verifies the data. After manual data entry, the user can check the data.

Button: **Insert Planned Elm.** – Copies the elements of the planned program into the dialog.

Button: **Delete performance data**

– Deletes all element data and judges scores of the current performance. If the performance was calculated before (i.e. the skater is already in the result list), then press 1st score button to re-calculate.

Buttons: **0.00** – Set the Time Code of the specific element to 0:00

Button: **OK** – saves changes and returns to previous windows

Button: **Cancel** - No action and return to previous window

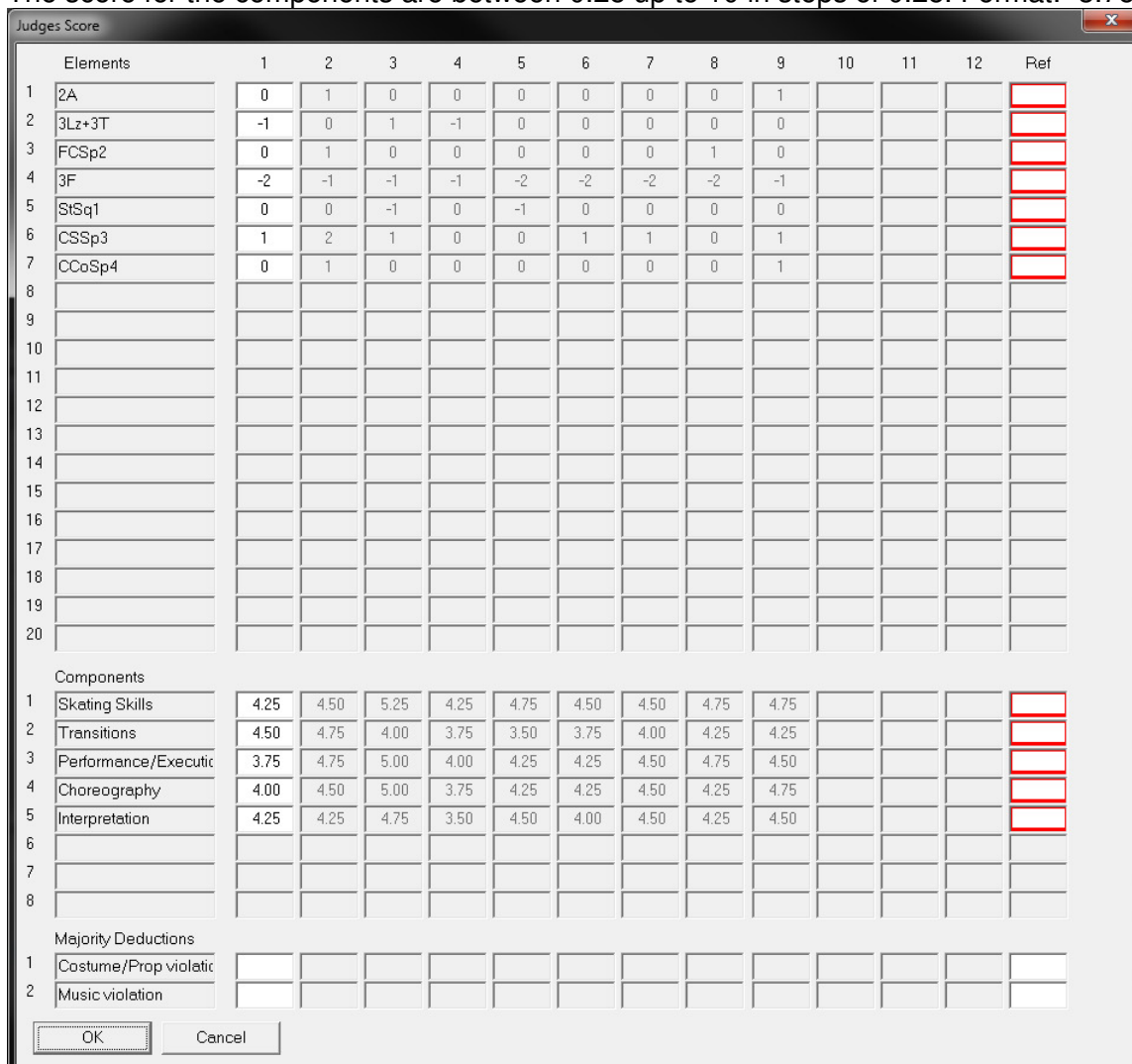
There is no automatic verification after the manual change of element data. For verification return to the previous dialog and press the Verify button. Reason: If the technical panel wants to overrule the verification, the operator can enter the changes manually.

6.2.3 Edit judges scores

To enter or edit the data of a judge press the Jdg Data button in the Run Event dialog. The Send Judges dialog appears. Press the Send button next to the judge's name. The Enter Judges Data window appears.

The Grade of Execution is in the range from –3 up to 3 in steps of 1. Format: “1” and “-2”

The score for the components are between 0.25 up to 10 in steps of 0.25. Format: “3.75”



Elements		1	2	3	4	5	6	7	8	9	10	11	12	Ref
1	2A	0	1	0	0	0	0	0	0	1				<input type="text"/>
2	3Lz+3T	-1	0	1	-1	0	0	0	0	0				<input type="text"/>
3	FCSp2	0	1	0	0	0	0	0	1	0				<input type="text"/>
4	3F	-2	-1	-1	-1	-2	-2	-2	-2	-1				<input type="text"/>
5	StSq1	0	0	-1	0	-1	0	0	0	0				<input type="text"/>
6	CSSp3	1	2	1	0	0	1	1	0	1				<input type="text"/>
7	CCoSp4	0	1	0	0	0	0	0	0	1				<input type="text"/>
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
Components		1	2	3	4	5	6	7	8	9	10	11	12	Ref
1	Skating Skills	4.25	4.50	5.25	4.25	4.75	4.50	4.50	4.75	4.75				<input type="text"/>
2	Transitions	4.50	4.75	4.00	3.75	3.50	3.75	4.00	4.25	4.25				<input type="text"/>
3	Performance/Executic	3.75	4.75	5.00	4.00	4.25	4.25	4.50	4.75	4.50				<input type="text"/>
4	Choreography	4.00	4.50	5.00	3.75	4.25	4.25	4.50	4.25	4.75				<input type="text"/>
5	Interpretation	4.25	4.25	4.75	3.50	4.50	4.00	4.50	4.25	4.50				<input type="text"/>
6														
7														
8														
Majority Deductions		1	2	3	4	5	6	7	8	9	10	11	12	Ref
1	Costume/Prop violatic													<input type="text"/>
2	Music violation													<input type="text"/>

Figure 26 - Judges score

Button: **OK** – saves changes and returns to previous windows

Button: **Cancel** - No action and return to previous window

6.2.4 Change segment status

The status window can be called by pressing Status button in the Run Event dialog.

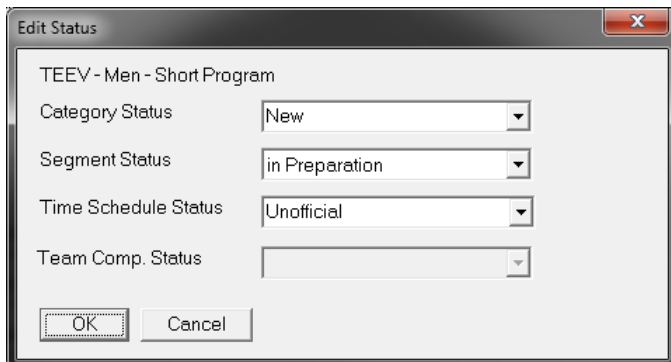


Figure 27 - Edit status

Button: **OK** – saves changes and returns to previous window

Button: **Cancel** - No action and return to previous window

6.2.5 Send officials

To send officials to OSIS interfaces press the [Judges] button in the “Run Event” window and the following window appears:



Figure 28 - Send judges

Button: **Send** - Send the desired name to the devices

Button: **Send All Judges** - Send panel of judges to the devices

Button: **Clear Scoreboard** – Clear the scoreboard screens

Button: **OK** - Return to previous window

Button: **Cancel** - Return to previous window

6.2.6 Send victory ceremony

The victory ceremony window is used to send victory ceremony data to the interfaces. It can be reached from within the Run Event window by pressing on the V. Cerem button:

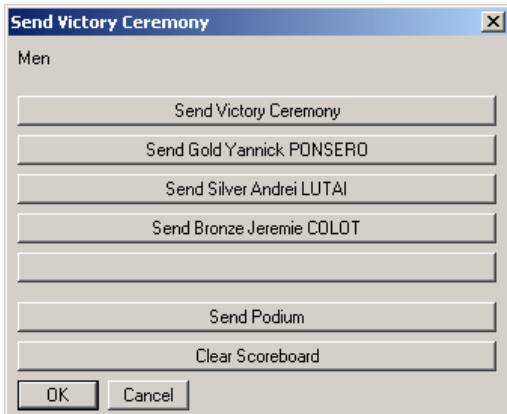


Figure 29 - Send victory ceremony

Button: **OK** - Return to previous window

Button: **Cancel** - Return to previous window

6.2.7 Change competitor status

Functionality to change the status of a competitor during the competition. It is recommended to change a status only between the performances of two competitors.

There are two different states.

- Participant status: is the overall status of the competitor. Valid values are Active, Withdrawn, Final Not Reached, Not Qualified, Disqualified
- Performance status: relates to the performance of the competitor in the segment. Valid values are
Remaining (competitor didn't start yet),
Ok (competitor finished performance, result will count in the segment result), Invalid Result
Mark (competitor received WDR status during the segment or DSQ status, performance will not
count in the segment result),
Not in segment (for segments with groups, e.g. in qualification, skater does not belong to the
group which skates in the segment)

To change the status, select the competitor in the list, select the new status in the combo box and press Enter.

Change between participant and performance status with the radio button.

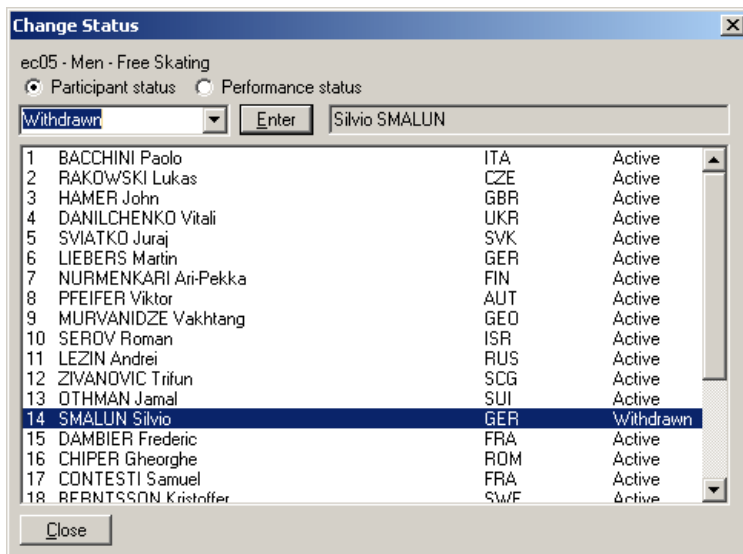


Figure 30 - Change status

Button: **Close** - Return to previous window. The operator is asked to re-calculate the ranking. Agree if the result of the current competitor is already calculated or no scores are entered yet. Disagree if ISUCalcFS is receiving scores for the current competitor.

After the re-calculation of the ranking the OSIS interface sends an initialisation message.

6.2.8 Print reports

In each menu point for Output, the following window appears. Please select print device and number of copies.

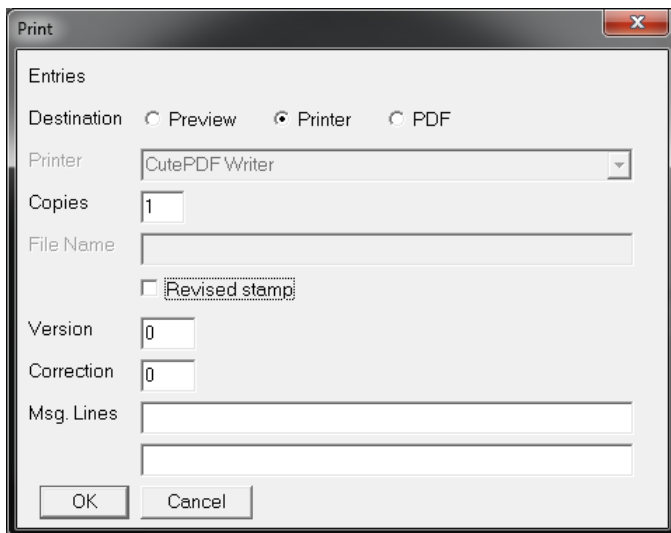


Figure 31 - Print window for outputs

Field: **Destinations** - Select where the output should be printed: on screen, on the printer, in a PDF

Field: **Printer** - Select the default printer

Field: **Copies** - Enter the number of copies

Field: **File Name** - Enter a file name

Field: **Version** - Version number

Field: **Correction** - Correction number

Field: **Msg. Lines** - Additional text in report

Button: **OK** - Execute output and return to previous window

Button: **Cancel** - No action and return to previous window

All reports are created with Crystal Reports Tools version 11. Every report uses a different report template. The templates are located in the Reports\RpXiEn subfolder and can be adjusted by the user according their own requirements.

6.2.9 Batch Print

With the Batch Print Dialog it is possible to printout and create pdf outputs from a list of reports for more than one Segment

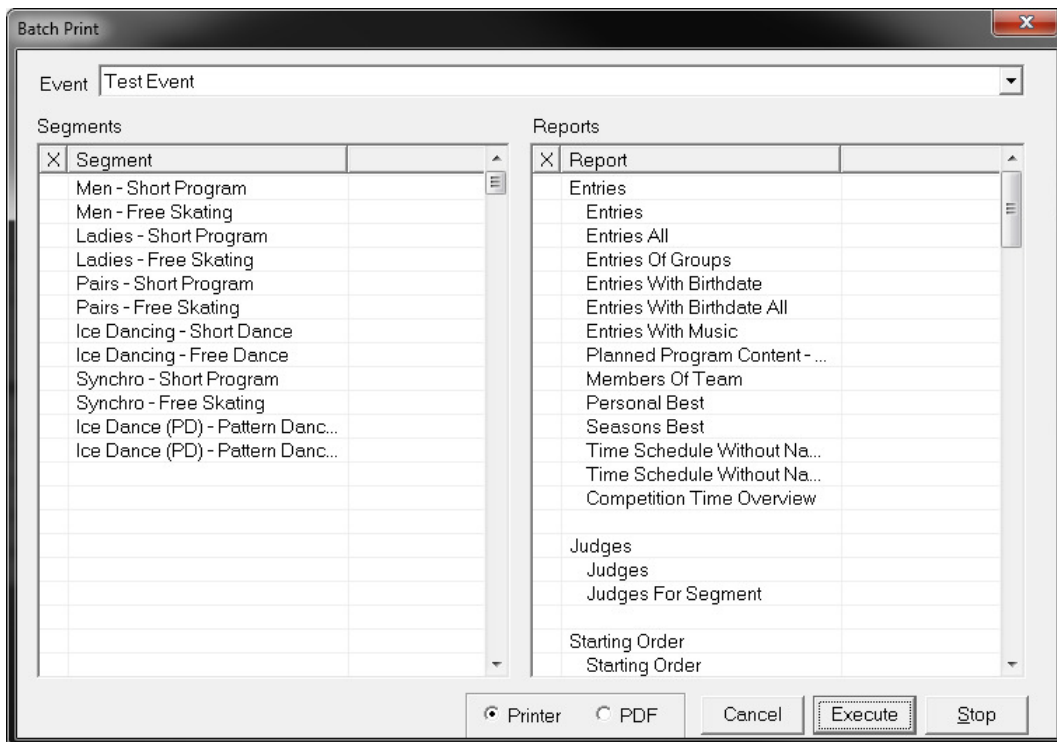


Figure 32 - Batch Print

Field: **Event** – Select a desired event

List: **Segments** – Double click on one entry to select a single Segment. Click on the “X” in the table header to select all segments

List: **Reports** – Double click on one entry to select a single report. Double click on a report category to select all reports of this category. Click on the “X” in the table header to select all reports in the list

Box: **Printer** / **PDF** – Select the desired output format

Button: **Cancel** – Closes the menu

Button **Execute** – Starts the batch print. When Printer is selected choose the desired Printer. When PDF is selected choose a pdf destination.

Button: **Stop** – Cancel the Batch Print

6.3 Master data

6.3.1 Working with nations

You can build your own database with nations and their ISU abbreviations by selecting the menu Basic Data - Nations. The following window appears:

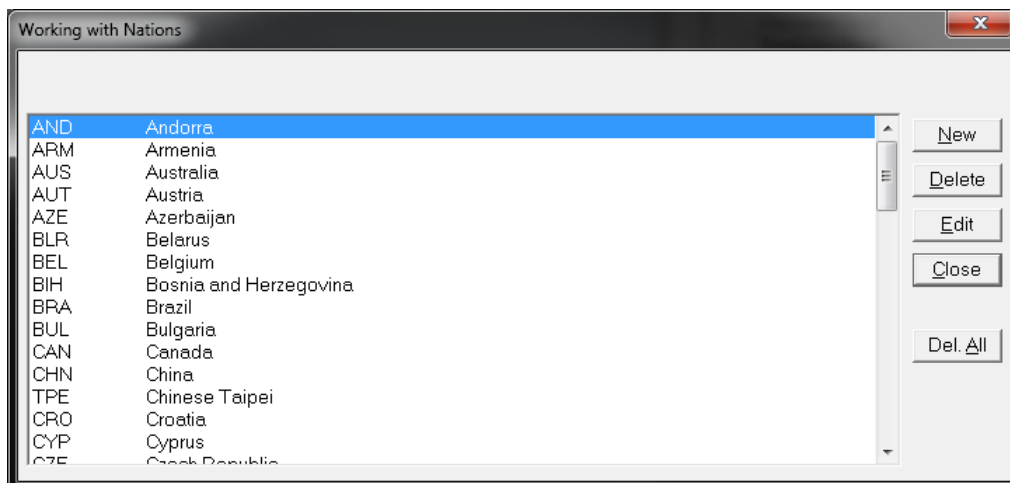


Figure 33 - Working with nations

Button: **New** - Create a new nation description

Button: **Delete** - Delete a nation

Button: **Edit** - Edit nation description

Button: **Close** – Close window

Button: **Del. All** – Clears the nation list

The nation description of all ISU members is provided in the nation.xml file. The file can be imported to the database (see section 6.4.1).

6.3.2 Edit nation

Figure 34 - Edit nation

Field: **Nation** - Complete name of the nation

Field: **Abbreviation** - ISU abbreviation of the nation

Field: **Sort order** - sorting order of the nation (see official ISU list). Is used e.g. for sorting the entries of a category.

Field: **IOC Abbr.** - NOC abbreviation

Field: **Nation for TV** - Shows the abbreviation of the Nation.

Button: **OK** – saves changes and return to previous window

Button: **Cancel** - No action and return to previous window

6.3.3 Selection of skater and official data

In the menu Basic Data - Competitors and Basic Data - Officials, you find the following "generic search routine" to find or create new athletes' data.

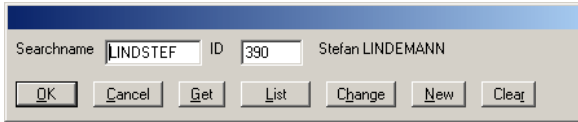


Figure 35 - Selection of skater and official data

Field: **Searchname** - Abbreviated name for the search routine, consists of the first 4 characters of the last name and the first 4 characters of the first name, if a name is shorter than 4 characters, use blanks.

Field: **ID** - unique ID for each person in the database

Button: **OK** - Verify the selected data and transfers them into the list selected before

Button: **Cancel** – close the window

Button: **Get** - Transfers the selected data from the database. The ID has priority, if there are two or more identical names

Button: **List** - Shows a list of all data and pre-selects an entry which matches the search name

Button: **Change** - Enables you to change existing data

Button: **New** - Enables you to create new data

Button: **Clear** - Resets the ID to undefined

List basic data

Click the List button in the search routine and the following window opens.

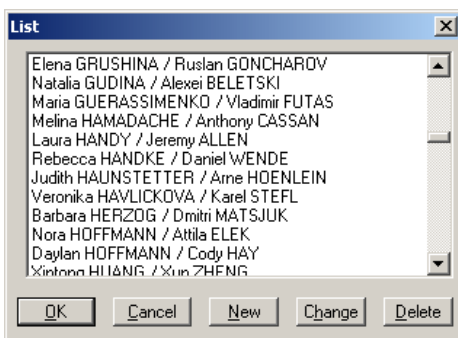


Figure 36 - List basic data

Button: **OK** - Verifies the selected data

Button: **Cancel** - clears the menu

Button: **New** - Enables you to create new data

Button: **Change** - Enables you to modify existing data

Button: **Delete** - Erases selected data

6.3.4 Edit data of skater

To edit basic data for skater, please select the menu Basic Data - Competitors - Singles. The window below appears, when you choose a competitor and click the Change button.

Figure 37 - Edit person

Field: **Status** - Select the status of the participant

Field: **Internal ID** - This number is automatically assigned.

Field: **External ref.** - Field to link category to an external system

Field: **Gender** - Select the gender of the competitors

Field: **Reg. No.** - Registration number: Field to link to external database

Field: **Title** - Select the title of a person

Field: **Given Name** - Complete first name

Field: **Family Name** - Complete last name

Field: **Nation** - ISU abbreviation for the nation

Button: **Club** - Clicking this button activates the "generic search routine" to find or create a club.

Field: **Birth Date** – date of birth, format: system short date format

Field: **Height in m/ft** - height of the person in meters or feet

If you have filled out the above fields and clicked the button **Calc. Names** (Calculate Names), the following fields are automatically filled.

Field: **G.N. Initials** - Given Name Initials. First letter of the given name

Field: **F.N. in Capitals** - Family Name automatically converted to capital letters

Field: **Search Name** - Abbreviated name for the search routine, consists of the first 4 characters of the last name and the first 4 characters of the first name. If a name is shorter than this, use blank.

Field: **Complete Name** - Complete name of the person

Field: **Paper Full Name** - Complete name of the person printed on some papers

Field: **Paper Short Name** - Name of the person in some lists; may be abbreviated

Field: **Coach** – Coach of Participant

Field: **SP Music** – Music for Short Program

Field: **FS Music** – Music for Free Skating

Button: **OK** – saves changes and returns to previous windows

Button: **Cancel** - No action and return to previous window

Button: **Additional Names** - Data entry of additional names

Button: **Elements SP/OD** – Planned program for the Short Program. Functionality is only available after the record was saved.

Button: **Elements FS/FD** – Planned program for Free Skating. Functionality is only available after the record was saved.

Additional names

Additional Names windows can be accessed by pressing the [Additional Names] button on the Edit Person window:

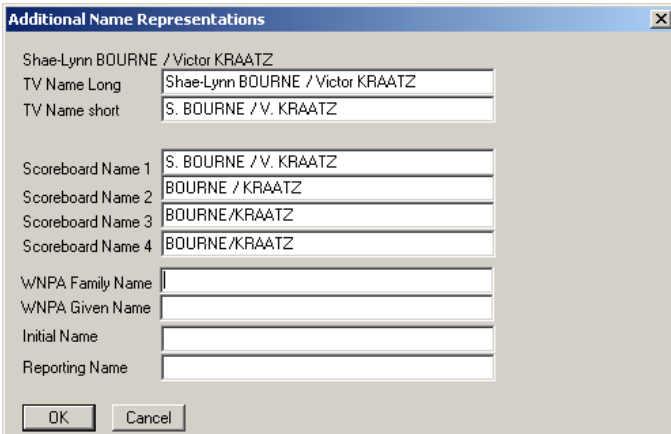


Figure 38 - Additional Names

Button: **OK** – saves changes and returns to previous windows

Button: **Cancel** - No action and return to previous window

Planned program

Planned Program Content windows can be accessed by selecting the Planned Program menu:

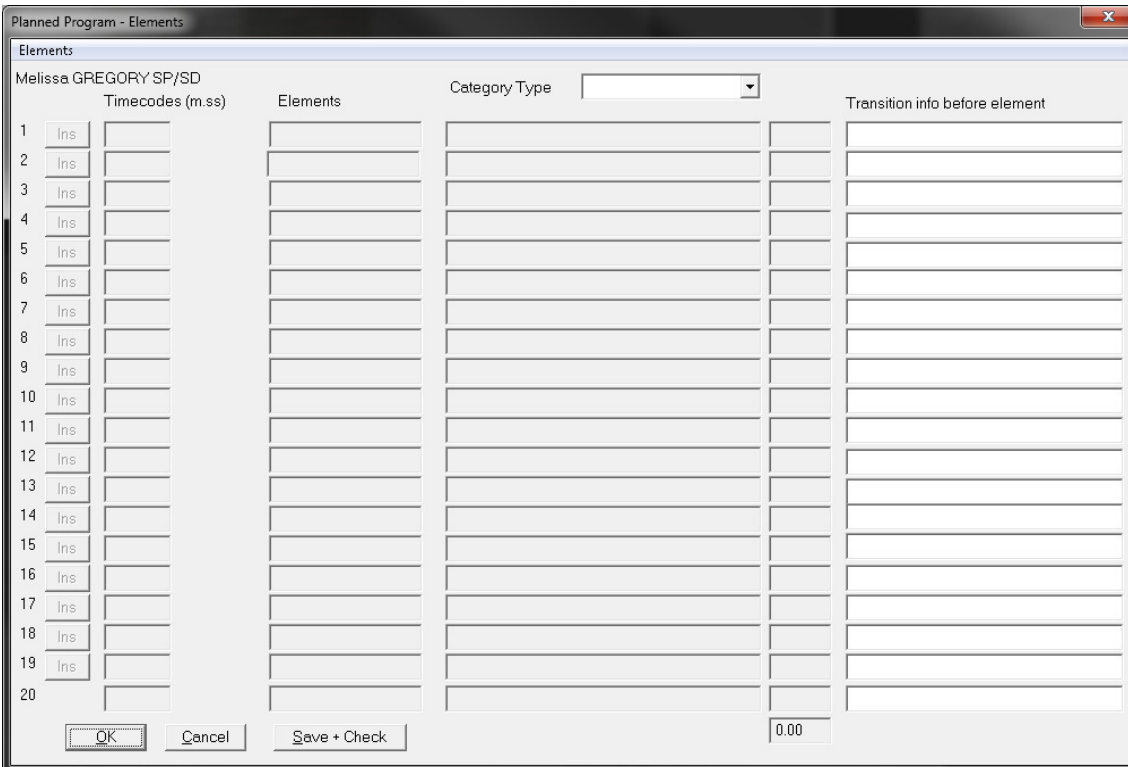


Figure 39 - Planned Program menu > Elements

Select the **Category Type** first.

Button: **OK** – saves changes and returns to previous windows

Button: **Cancel** - No action and return to previous window

Button: **Save+Check** – Save and verifies the data. After manual data entry, the user can check the data.

The planned program content is a part of the master data of a skater. When a competition is loaded (unless segment status is “Segment completed” or “Results official”), the data of the planned program are copied to the competition specific data.

The judges and technical panel sheets are displaying competition specific data. After entering the planned program please open the competition once before printing the sheets.

6.3.5 Edit couple data

To edit basic data for couples, please select the menu Basic Data - Competitors - Couples. The following window appears, if you choose a couple and click the Change button.

Figure 40 - Edit couples

Field: **External ref.** - Field to link category to an external system

Field: **Reg. No.** - Registration number: Field to link to external database

Field: **Internal ID** - This number is assigned automatically

Field: **Status** - Select the status of the participants

Button: **Person** - Please click the [Undefined] button to go to the "generic search routine" to change one or both

Button: **Club** - Clicking this button activates the "generic search routine" to find or create a club.

Field: **Nation** - ISU abbreviation for the nation

If you have filled out the above fields and clicked the button Calc. Names (Calculate Names), the following fields are automatically filled.

Field: **Search Name** - Abbreviated name for the search routine, consists of the first 4 characters of the last name and the first 4 characters of the first name, if a name is shorter than this, use blank.

Field: **Complete Name** - Complete name of both participants, lady first

Field: **Paper Full Name** - Complete name of both participants printed on some lists, lady first

Field: **Paper List Name** - Both last names of participants used in some lists; may be abbreviated, lady first

Field: **OD Rhythms** - Original dance rhythms performed by the participant

Field: **Coach** – Coach of Participant

Field: **SP/OD Music** – Music name of Short Program or the Original Dance rhythms.

Field: **FS/FD Music** – Music for Free Skating or Free Dance

Field: **Comment** - Comment to the Participant (filled with all OD Rhythms if selected)

Button: **OK** – saves changes and returns to previous windows

Button: **Cancel** - No action and return to previous window

Button: **Additional Names** - Data entry of additional names

Button: **Elements SP/OD** – Planned program for the Short Program or Original Dance.

Button: **Elements FS/FD** – Planned program for the Free Skating or Free Dance.

6.3.6 Edit team data

To edit basic data for teams, please select the menu Basic Data - Competitors - Teams. The subsequent window will appear, when you choose a team and click the Change button.

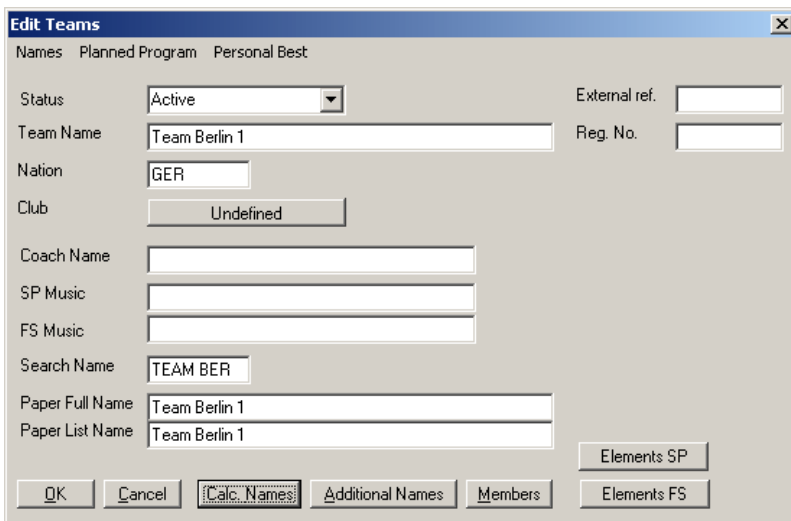


Figure 41 - Edit Teams

Field: **Status** - Select the status of the team

Field: **Team Name** - Complete name of the Team

Field: **Nation** - ISU abbreviation for the nation

Field: **Club** – assign Club to the team

Field: **External ref.** - Field to link category to an external system

Field: **Reg. No.** - Registration number - Field to link to external database

If you have filled out the above fields and clicked the button Calc. Names (Calculate Names), the following fields are automatically filled.

Field: **Coach** – Coach of the team

Field: **SP/OD Music** – Music of Short Program.

Field: **FS/FD Music** – Music for Free Skating

Field: **Search Name** - Abbreviated name for the search routine, if a name is shorter than this, use blank.

Field: **Paper Full Name** - Complete name of the team printed on some lists

Field: **Paper List Name** - Complete name of the team used in some lists; may be abbreviated

Button: **Members** - Assign members to the team. Functionality is only available after the record was saved.

Button: **Additional Names** - Data entry of additional names

Button: **Elements SP/OD** – Planned program for the Short Program. Functionality is only available after the record was saved.

Button: **Elements FS/FD** – Planned program for Free Skating. Functionality is only available after the record was saved.

Button: **OK** – saves changes and return to previous windows

Button: **Cancel** - No action and return to previous window

Members of the team

The entry process of team members is similar to the entry of participants.

Button: **New** – Add a new member to the team

Button: **Delete** - Delete a member from the team

Button: **Change** - Change description

Button: **OK** – Close window

Edit member of a team

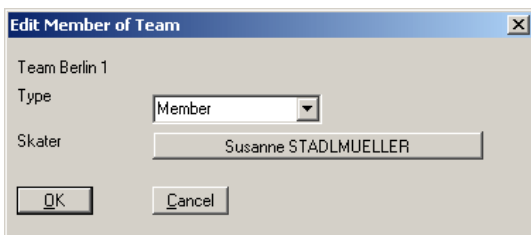


Figure 42 - Edit member of team

Field: **Type** - Distinguish between captain, member and substitutes

Button: **Skater** - Selection of the person in the person database

Button: **OK** – saves changes and return to previous windows

Button: **Cancel** - No action and return to previous window

6.3.7 Edit official data

To edit basic data of an official please select the menu Basic Data > Officials. The following window appears, when you choose a judge and click the [Change] button.

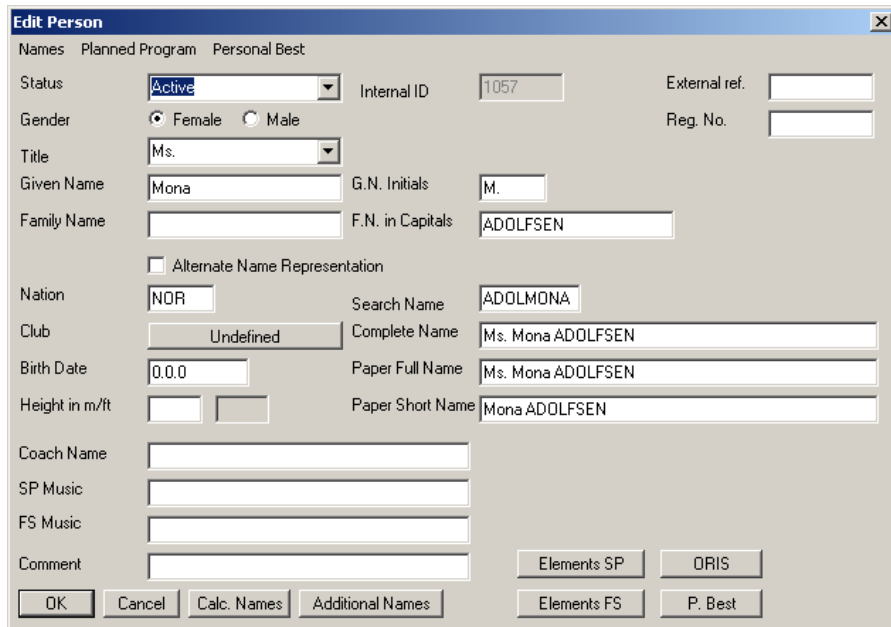


Figure 43 - Edit Person

Field: **Status** - Select the status of the judge

Field: **Internal ID** - This number is assigned automatically.

Field: **External ref.** - Field to link category to an external system

Field: **Gender** - Select the gender of the judge

Field: **Reg. No.** - Registration number: Field to link to external database

Field: **Title** - Select the title of a person

Field: **Given Name** - Complete first name

Field: **Family Name** - Complete last name

Field: **Nation** - ISU abbreviation for the nation

If you have filled out the above fields and clicked the button **Calc. Names** (Calculate Names), the following fields are automatically filled.

Field: **Search Name** - Abbreviated name for the search routine; it consists of the first 4 characters of the last name and the first 4 characters of the first name, if a name is shorter than this use blank.

Field: **G.N. Initials** - Given Name Initials; first letter of the given name

Field: **F.N. in Capitals** - Family Name automatically converted to capital letters

Field: **Complete Name** - Complete name of the person including title

Field: **Paper Full Name** - Complete name of the person printed on some lists including title

Field: **Paper Short Name** - Name of the person in some lists, may be abbreviated

Button: **OK** – saves changes and return to previous windows

Button: **Cancel** - No action and return to previous window

Button: **Additional Names** - Data entry of additional names

6.3.8 Edit club data

To create a new club description or edit the data of an existing one, select the Basic Data – Clubs menu. If you choose a club and click the Change button, the following window appears:

Figure 44 - Edit club data

Field: **Status** - Select status of the club

Field: **Name** - Complete name of the club

Field: **Short Name** – Shortcut of the club (max 5 char, report field PCT_CSNAME)

Field: **External ref.** - Field to link category to an external system

Field: **Reg. No.** - Registration number: Field to link to external database

Field: **Nation** - ISU abbreviation for the nation

Field: **City** - Name of the city where the club is located

If you have filled out above fields and clicked the button **Calc. Names** (Calculate Names), the following fields are automatically filled.

Field: **Search Name** - Abbreviated name for the search routine, if a name is shorter than this, use blank.

Field: **Paper Full Name** - Complete name of the club printed on some lists

Field: **Paper List Name** - Name of the club in some lists; may be abbreviated

Button: **OK** – saves changes and returns to previous window

Button: **Cancel** – No action and return to previous window

6.3.9 Select an event

Select the event from the list and press the OK button.

Figure 45 - Select an event

Button: **OK** – Select list entry and opens the related window

Button: **Cancel** – Close the window and return to the previous window

6.3.10 Select a category

For selecting a category, first the event and then the category must be selected. Then press the OK button.

Note: The content of the list box Category will change when you select a different event.

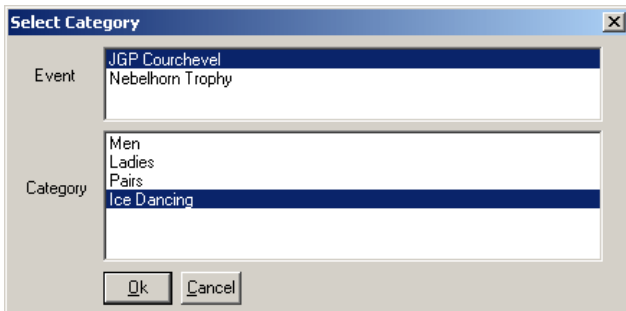


Figure 46 - Select a category

Button: **OK** – Select list entry and opens the related window

Button: **Cancel** – Close the window and return to the previous window

6.3.11 Select a segment

For segment selection, the event and the category must be selected first before the segment can be selected. Then press the OK button.

Note: The contents of the list box categories and segment will change when selecting a new event or a new category respectively.

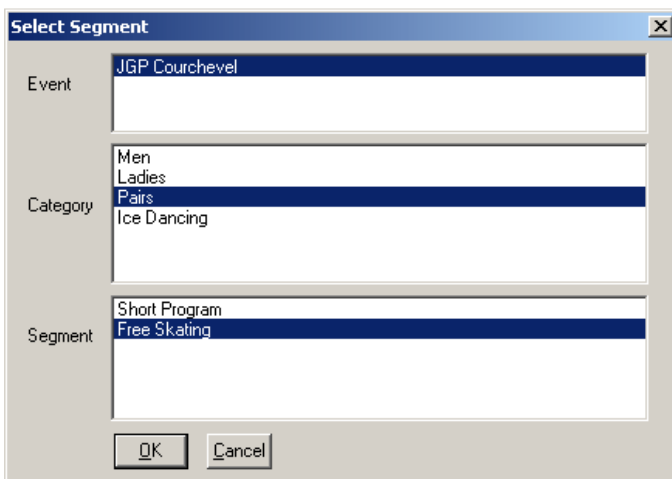


Figure 47 - Select a segment

Button: **OK** – Select list entry and opens the related window

Button: **Cancel** – Close the window and return to the previous window

6.4 Supporting functionality

6.4.1 Exchange with XML

This functionality supports the exchange of data between different ISUCalcFS databases. Both databases must be run with the same ISUCalcFS version.

Export the data of an event, a category or a segment to an XML message.

Use the Import menu to insert the data of an XML message with structure of the export message.

First there is a check whether the import data are in the database already. The following criteria are used to find a match:

Event Category Segment	1. Field regno 2. Field External reference 3. Name
Persons Note: Use the XMLImportPCT option in the Ini-file to turn the person import on and off (see section 6.4.5).	1. Field regno 2. Field External reference 3. complete name

6.4.2 Export to Html

Creates Html pages with the result of the event. The output can be configured in the Ini File (see section 6.4.5).

The following Html pages are created with the Entire Event menu:

- Event overview with schedule
- Entry list of the event
- Technical panel and panel of judges for every segment
- Starting order for every segment or the result page, when the segment is finished

A page with the intermediate result of the current segment is created after the result of a skater is calculated (after pressing 1st Score). The file is saved in the html destination folder. In addition a batch file can be processed to copy the file to a different location (e.g. Ftp site, see HtmlOCommand in section 6.4.5).

6.4.3 Backup data

Copies the data file to a different folder. The folder can be set in the General section of the Ini File (see 6.4.5).

6.4.4 Recalc category

Re-calculates the result of all segments in the selected category.

6.4.5 Edit Ini file

The ISUCalcFS.ini contains user settings. The file is located in the program folder. Use the Edit Ini File menu or a text editor to edit the program settings.

The ISUCalcFS setup set contains a standard Ini file.

```
[GENERAL]
XMLImportPCT=0
BackupFolder=c:
HtmlOResult=1
HtmlOCommand=online.cmd
SortEntriesByNation=1
SortEntriesByClub=0

[IRJudge1]
Alias=Scoring A
IPServer=0
IPAddress=127.0.0.1
IPPort=1008
Portnum=99
LogFileDir=\\192.168.1.121\ISUCalcFS\LogFiles
BackupIn=c:\ISUCalcFS\LogFiles
JudgeOffWhenSegmentClosed=1
' Map JudgeIndex = JudgePosition
Map01=1
Map02=2
Map03=3
Map04=4
Map05=5
Map06=6
Map07=7
Map08=8
Map09=9
Map10=10
Map11=0
Map12=0
Map13=0
Map14=0
Map15=11

[OSISPublic1]
Alias=Info
IPServer=1
```

IPAddress=127.0.0.1

IPPort=4000

Portnum=99

[HTML]

event-home=index.htm

site-home=http://www.isufs.org/events

contact-email=IhelpYou@skatingfederation.org

directory=html

ShowClub=0

ShowClubLongName=0

ShowNation=1

ListPdf=0

ShowOfficialDataVideo=1

[OUTPUT-MENU]

Note: The character [] include the name of a section in the Ini file. Please do not use these characters to comment out a line.

General section

General:

VerifyMode	Not used anymore. Type of verification can be chosen in the segment dialog.
XMLImportPCT	= 0 or 1, default is 1 XML import: Import/overwrite competitor data during import.
HtmlOResult	= 0 or 1, default is 1 Create Html result page after current skater.
HtmlOCommand	Name of a batch file, which is executed after the Html page, is created. Can be used to upload the file to an Ftp site. The batch file must be saved in the working folder of ISUCalcFS.
SortEntriesByNation	= 0 or 1, default is 1 sort entries by nation sort order field
SortEntriesByClub	= 0 or 1, default is 0 sort entries by club short name

IRJudge1 section

IRJudge1: connection to the scoring system

The Scoring system - ISUCalcFS interface uses indices for the identification of the judges and the referee. ISUCalcFS: Judge 1 – 1, Judge 2 – 2, ..., Referee – 15. Use Map JudgeIndex to match the indexes of the scoring system.

Example: panel with 3 judges and 1 referee: keep the setup of the Mapping as shown in the sample above. Use the following positions in ISUScoreFS: Judge 1 – position 1, Judge 2 – position 2, Judge 3 – position 3, Referee – position 11 (because Map15=11).

Every incoming message of the judging system is saved in a timing log file for security reason. These files can be imported manually. See 6.5.

LogFileDir	<p>Target directory for timing log files.</p> <p>If possible, files should be saved on a different PC, e.g. expert PC or ISUCalcFS backup PC (in the example above the IP of the backup PC is)</p> <p>The user needs permission to write in the target directory.</p> <p>In the example above the IP of the backup PC is 192.168.1.121. The ISUCalcFS folder is shared. LogFiles is a sub-folder of ISUCalcFS.</p>
BackupIn	<p>Folder of timing log files when importing log files with Read Bck. (see 6.2.1)</p> <p>For the backup ISUCalcFS it should point to the folder where the main ISUCalcFS application saves the timing log files.</p> <p>In the example above the main application saves the log files on the backup PC. Therefore BackupIn points to the local folder.</p>
BackupOut	Folder for export of timing log files with Write Bck. (see 6.2.1)
JudgeOffWhenSegmentClosed	<p>= 0 or 1, default is 1</p> <p>Activates Break screen in judge's panel when the operator closes the segment.</p> <p>Press Judge On to remove Break screen.</p>

ORISPublic1 section

OSISPublic1: XML based interface for online down stream systems. E.g. scoreboard, Info system, ...

Html section

HTML: setup the Html output (see section 6.4.1)

Event-home	Name of the Index page
Site-home	Address of the website to which the result pages are linked.
Contact-email	Contact info for comments in the html pages. Please enter a contact email address.
Directory	Folder for the created Html pages. If the folder doesn't exist, the pages are not created. Is a subfolder of the database folder.
ShowClub	= 0 or 1, default is 0 show club information of the skater
ShowClubLongName	= 0 or 1, default is 0 Show long club name of the skater in the entry list. Because of space limitation is applies for the entry list only.
ShowNation	= 0 or 1, default is 1 show nation information of the skater
ListPdf	= 0 or 1, default is 0 Adds a link to the JudgesScore PDF file on the main page.
ShowOfficialDataVideo	= 0 or 1, default is 1 lists data and video operator in the Officials list

OutputMenu section

OUTPUT MENU: contains the structure of the Output menu. If this section is empty, it will be re-created after the start of the program.

The section is re-created with every update of the database.

Setup TCP/IP connection

The following parameters are used for TCP/IP connections.

	ISUCalcFS is server	ISUCalcFS is client
IPServer	= 1 The client application connects to ISUCalcFS.	= 0 ISUCalcFS connects to the server application.
IPAddress	= 127.0.0.1	IP address of the server application. Use 127.0.0.1 for local host.
IPPort	IP port for TP/IP connection	
Portnum	= 0 Interface is not active = 99 Interface is active	
Alias	Alias name for the IP connection, can be used to describe the client.	

6.4.6 Re-organize database

Shrinks the database files and updates indexes. It is recommended to restart the program afterwards.

6.4.7 Erase Scores

Deletes all performance data (elements of competitors, scores of the judges), and calculated results in the selected segment.

6.4.8 Customized program verification

The application provides functionality to check every performance for required elements or the well-balanced program.

The user can choose between:

- Verification according ISU rules (default)
- Verification according customized rules
- No verification

The type of verification can be set for every segment (see section 6.4.5).

All rules of the customized verification are entered in the Special | Program Verification menu.

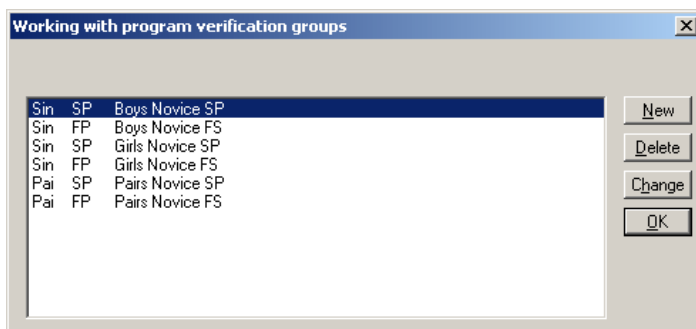


Figure 48 - Working with program verification groups

First define a group name (identifier of rule set). This group name can be chosen in the segment dialog (see section 6.1.7) for verification.

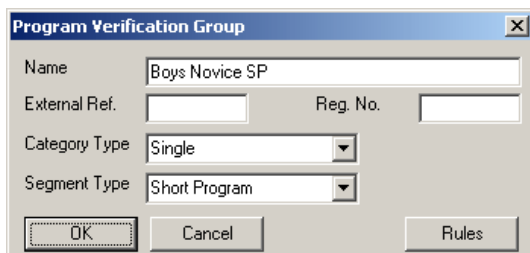


Figure 49 - Program verification group

Field: **Category Type, Segment Type** - Select the category and segment type where the rules should apply. The element type list box depends on the values.

Field: **External data** - Field to link the event to an external system

Field: **Reg. No.** - Registration number: Field to link to external database

Button: **Rules** – Opens the list of rules of the group

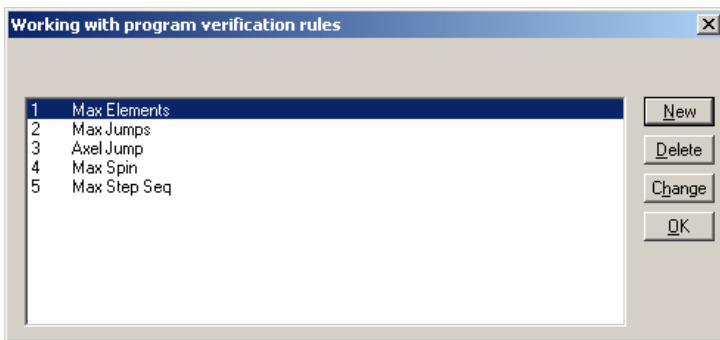


Figure 50 - Working with program verification rules

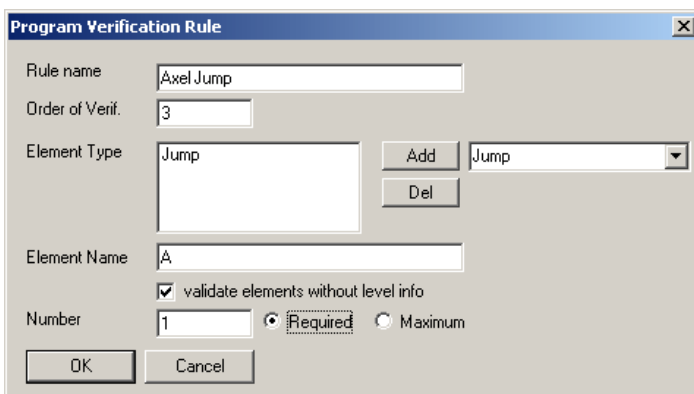


Figure 51 - Program verification rule

Field: **Rule Name** – description of the rule

Field: **Order of Verif.** – Sequence number. Order in which the rules will be applied

Element **Type** – One or more types of elements the rule applies to, possible types can be selected in the combo box. The rule will apply to all elements which belong to one of the types (logical OR).

Button: **Add** – adds a selected item from the combo box to the list box

Button: **Del** – deletes a selected item of the list box

Field: **Element Name** – The rule will apply to all performed elements, where element name is a sub-string of the performed element. It can be specified with or without a level.

Field: **Validate Element without level info** – activate if rule applies to all level

Field: **Number** – Maximum number of allowed or minimum of required elements

Radio button: **Maximum / Required** – Indicates, whether the rule describes a number of maximum elements or a number of required elements

Maximum number of rules per segment is 20.

Examples:

Description	Order	Element Type	Element Name	Validate without level	Number	Maximum / Required
Maximum number of elements in performance e.g. 8 Valid and invalid elements are counted.						
	1	Empty	Empty	No	8	Max
Maximum number of jumps in performance, e.g. 3						
	1	Jump Jump combo Jump seq	Empty	No	3	Max
Performance must include one Axel jump within the maximum number of jumps						
	1	Jump Jump combo Jump seq	Empty	No	3	Max
	2	Jump	A	Yes	1	Req
Performance must include one layback spin and one sit spin						
	1	Spin	Empty	No	2	Max
	2	Spin	LSp	Yes	1	Req
	3	Spin	SSp	Yes	1	Req

Example: novice girls short program (season 05/06)

The Short Program for Girls' Singles shall consist of the following elements:

- a) Axel Paulsen or double Axel Paulsen
- b) Double or triple jump immediately preceded by connecting steps
- c) One jump combination consisting of two (2) double jumps or one (1) double and one (1) triple jump, both jumps may not repeat jump in a) or b)
- d) Layback or sideways leaning spin (minimum of six (6) revolutions)
- e) Spin combination with only one change of foot and at least one change of position (minimum of five (5) revolutions on each foot). The minimum number of revolutions required in a position is two (2). In case this requirement is not fulfilled, the position is not counted

f) One (1) spiral sequence consisting at least two (2) spiral positions. A spiral position in order to be counted must be held for at least three (3) seconds

g) One (1) step sequence with full utilization of the ice surface (straight line, circular or serpentine)

Description / Comments	Order	Element Type	Element Name	Validate without level	Number	Maximum / Required
Maximum number of elements in performance	1	Empty	Empty	No	7	Max
Maximum number of jumps (Rule a, b, c)	2	Jump Jump combo Jump seq	Empty	No	3	Max
Axel Paulsen or double Axel Paulson (Rule a)	3	Jump	A	yes	1	Req
Jump Combo (Rule c)	4	Jump combo Jump seq	Empty	No	1	Req
Maximum Spin (Rule d, e)	5	Spin	empty	No	2	Max
Layback or sideways leaning spin (Rule d)	6	Spin	LSp	yes	1	Req
Spin combo (Rule e)	7	Spin	CCoSp	yes	1	Req
Maximum Step Seq (Rule f, g)	8	Step Seq	empty	No	2	Max
Req Spiral step seq (Rule f)	9	Step Seq	SpSt	yes	1	Req
Max Spiral step seq (Rule g)	10	Step Seq	SpSt	yes	1	Max

The following details are not checked:

- Rule c) repetition of jumps of a) and b)
- Number of revolutions in spins (task of the Technical Panel)

Example well-balanced program:

- a) Maximum of six (6) jump elements for Girls and maximum of seven (7) jump elements for Boys
- b) one of which must be an Axel type jump
- c) and there may be up to three (3) jump combinations or sequences.
- d) Only one (1) jump combination can contain three (3) jumps.

A jump sequence can contain any number of jumps , but only two most difficult jumps will be counted.

f) Only two (2) jumps with two and a half (2 1/2) or three (3) revolutions can be repeated either in a jump combination or in a jump sequence.

- g) There must be a maximum of three (3) spins of a different nature,
 h) one of which must be a spin combination (minimum of ten (10) revolutions)
 i) and one a flying spin (minimum of five (5) revolutions).

In spins the minimum number of revolutions required in a position is two (2). In case this requirement is not fulfilled, the position is not counted. The number of changes of foot in the spin combination is optional.

- j) There must be a maximum of one step or spiral sequence that fully utilizes the ice surface. A spiral position in order to be counted must be held for at least 3 seconds.

Description / Comments	Order	Element Type	Element Name	Validate without level	Number	Maximum / Required
Maximum number of elements in performance	1	Empty	Empty	No	10	Max
Maximum number of jumps (Rule a, b, c)	2	Jump Jump combo Jump seq	Empty	No	6	Max
Axel Paulsen or double Axel Paulson (Rule a)	3	Jump Jump combo Jump seq	A	yes	1	Req
Jump Combo (Rule c)	4	Jump combo Jump seq	Empty	no	3	Max
Maximum Spin (Rule d, e)	5	Spin	Empty	no	3	Max
Layback or sideways leaning spin (Rule d)	6	Spin	CoSp	yes	1	Req
Spin combo (Rule e)	7	Spin	F	yes	1	Req
Maximum Step Seq (Rule f, g)	8	Step Seq	Empty	no	1	Max

The following details are not checked:

- Rule d, rule f
- Rule g: different nature of spins

A rule is applied to a performed element when then element type matches and when the rule element name is a sub-string of the name of the performed element.

If there are more the one element type assigned in the rule, the performed element must match one of these.

6.5 Data backup

Please see ISUCalcFS.chm.

7 APPENDIX

7.1 Appendix A - Fast path event setup and procedures

Step		Comment
	Check master data (elements) If not exists, import element XML file.	Menu: Basic Data Elements
	Enter an event e.g. "Nebelhorn Trophy 2004".	Menu: Event Data Events
	Enter all categories for this event e.g. "Men", "Pairs".	Menu: Event Data Categories Set level, gender and type with care, because calculation parameters depend on these.
	Enter all segments for each category, e.g. "Short Program", "Free Skating".	Menu: Event Data Segment
	Enter all the judges that are not in the overall table of judges.	Menu: Event Data Officials
	Enter all participants by selecting one out of the overall table of competitors; if not found, add the competitor.	Menu: Event Data Participants
	Enter the panel of judges for each segment.	Menu: Event Data Segment -> Judges Use Copy to all segments button, if possible.
	Enter the schedule for every segment	Menu: Event Data Segment -> Time Data
	Enter the starting order.	Menu: Event Data Starting order
	Change the warm-up groups, if necessary.	Menu: Event Data Warm-Up groups
	Enter planned program for competitor	Menu: Basic Data Competitors ...
	Start the competition	Menu: Run Competition Start Manual Entry Menu: Run Competition Start Entry with scoring system

Manual data entry:

Step		Comment
	Enter performed elements and deductions Mark the first element performed in the 2nd half.	Button: Elements Instead adding the executed elements you can copy the planned elements to the list of executed elements. Verify the list and add the called element levels.
	Enter judges scores	Button: Jdg Data Select Judge
	Calculate result	Button: 1st Score The result appears in the result window
	Change to next competitor	Button: Next
	Continue with step 0	

Data entry with scoring system:

Step		Comment
	Select competitor	Button: Name
	Start rolling time when the competitor does the	Button: Time+

	first move.	
	Stop rolling time when the competitor does the last move.	Button: T: Stop
	Correct element list, if requested by Technical Panel (Possible reason: panel over-rules verification by the program, e.g. in case of downgraded jumps)	Only after element list is approved Button: Elements
	Calculate result	Button: 1st Score The result appears in the result window
	Change to next competitor	Button: Next
	Continue with step 0	

Exceptional situation:

Remove skater from start list (starting order is already drawn):

Step		Comment
	Reset starting number of skater to 0.	Event Data Starting order dialog
	Renumber all following skater.	Event Data Starting order dialog
	Print revised starting order	
	Recalc time schedule and print revised report	

Withdraw skater before competition:

Step		Comment
	Change status of skater	Event Data Participants dialog Select skater Change skater status to Withdrawn The skater is removed from the starting order report, but remains on the time schedule report.

Withdraw skater during competition:

Step		Comment
	Change status of skater	Button: Par. Status Select skater in list, select new status in combo box, press Enter button, press Close button

Data entry with scoring system: An element was missed. After entering the element to the bottom of the element list the verification of the required elements is not correct.

Step		Comment
	Enter element to the bottom of the element list	The element might be marked with a * by the verification.
	Enter a time code which belongs to the 1st or 2nd half of the program.	
	The technical panel reviews the element list and authorize.	
	ISUCalcFS operator edits the element list. Set or remove * to correct the verification. Close the dialog and do NOT verify again.	
	Calculate result	

7.2 Appendix B – Outputs

The following list of outputs can be printed:

Time	Output	Comment
Before the competition	Time Schedule without Names	Menu Output Entries Time Schedule without Names Use this report to verify the schedule of a segment, even not all participants are entered.
	Planned Program Content – Check list	Menu Output Entries Planned Program Content – Checklist The Technical Expert can use this sheet during the practice session to prepare the competition and verify the data in ISUCalcFS.
Before the draw	Entry List	Menu Output Entries Entries
	Judges	Menu Output Judges Judges
After the draw	Starting Order	Menu Output Starting Order Starting Order
	Time Schedule	Menu Output Starting Order Time Schedule
Before the start of the segment	Technical Controller Sheet	Menu Output Judges Sheets Technical Controller Sheet
	Technical Specialist Sheet	Menu Output Judges Sheets Technical Specialist Sheet
	Referee Sheet	Menu Output Judges Sheets Referee Sheet
	Judges Sheet	Menu Output Judges Sheets Judges Sheets All Judges
After the end of the segment	Result	Menu Output Result Result The Referee and the Technical Controller should sign the Result list after the final segment.
	Result for Segment Details	Menu Output Result Result for Segment Details
	Judges Scores	Menu Output Result Judges Scores
	Deduction Protocol	Menu Output Result Deduction Protocol The Referee and the Technical Controller should sign the Deduction Protocol.
Protocol		
For every category	Protocol Head Page	
	Final result with signatures	
	Judges	
For every segment	Result for segment	
	Judges Scores	
Other	Details	List the performed elements and archived results in all segment of a category, one page per skater

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7.4 Versions

Version	Date	Modifications since last version
1.0	10/06/10	Initial version
1.1	09/02/05	Partitioning req. added, hardware reqs. modified
1.2	17/01/05	Version 1.08
1.3	27/10/06	Layout modification
1.4	20/10/11	Layout changes
1.5	06/08/12	Update version ISUCalcFS version 3.0.2

NOTES

