

# **V E G A**

[www.vegachess.com](http://www.vegachess.com)

## **Chess Pairing Software**

**FIDE approved:**  
**Torino 2006: Dubov system**  
**Istanbul 2012, Goynuk 2017: Dutch system**

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**International Arbiter**

**User's Manual**  
**(February 2024 – Vega 10.3)**

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# 1. Overview and Main Recommendations

Vega consists of two programs for the administration of a chess tournaments; Vega for individual tournaments and VegaTeam for team tournaments. Vega has been designed in a way that reflects, as closely as possible, the tasks of the arbiter or Tournament Director (TD) during a tournament: These include:

1. Registration of players.
2. Pairing the next round.
3. Entering results for the current round.
4. Compiling the cross-table and other lists for display to the players.

During these steps some additional tasks are allowed such as managing withdrawals, printing positions, data correction, etc... Vega monitors the user's activities and only offers permitted functions at the proper time.

Vega includes the following functions:

- Registration of up to 1200 players and the evaluation of 23 rounds for the Swiss system or registration of up to 99 teams of 10 players each and the evaluation of 14 rounds. These limits can be changed.
- Registration of up to 24 players/teams for the round-robin system single and double.
- Automatic pairing according to the Swiss system: **FIDE Dubov, FIDE Burstein, FIDE Dutch** (systems provided by JaVaFo engine © Roberto Ricca *certified by FIDE*), **FIDE Lim, Swiss USCF**.
- Manual pairing.
- Manual improvements to pairings.
- Management of odd numbers of players.
- Evaluation of results (1-0, 1/2, 0-1, 0-0, forfeited, adjourned games, etc...).
- Administration of the cross-table.
- Facility to change data (results, names, ratings etc.).
- The import of players from any formatted database.
- The export of players or an entire tournament.
- Management of withdrawals and re-entries.
- Entry of players arriving late during the tournament.
- Output of pairing lists, reports, cross-tables, lists of players standings, etc...
- Generates web content of the tournament results.
- Prize distribution according to the Hort system.
- Accelerated rounds: FIDE Baku system, custom up to three groups and Progressive acceleration.
- Run under Windows, Linux and Mac OS X.

**By default Vega works implicitly in FIDE mode, i.e. it allows practice approved by FIDE. If the user activates some option deprecated by FIDE Vega will emit an appropriate warning.**

Although Vega has been designed to be very intuitive and easy to use, it is recommended that the user reads this manual and tries to simulate a few tournaments in order to learn all of its functions. The user must have some knowledge of the rules of the Swiss system and its implementation in Vega in order to properly manage pairings. There are occasions when manual pairing is required. The Vega web site contains some screencast demonstrating specific tasks.

## 1.1 Document Conventions

Graphical labels referred to in the text are marked using **bold text**.

Transition during menu navigation is marked using an arrow: **File** → **Exit**

Parameters to be substituted by the user are marked with <angled-brackets>.

## 1.2 System Requirements

Vega runs on Mac OS X (Mojave), Linux, Windows operating systems from Windows XP onwards fitted with a hard disk and a graphic card capable of supporting a resolution of 800x600.

A printer is recommended for the display of pairings and results during tournaments, although in principle Vega could be used without it. Vega will print only ASCII files. HTML output can be printed from the browser, but there is little control over page breaks.

Vega may run even on a USB pen drive.

## 1.3 Installation

**Windows version:** Vega comes in the self-extracting archive `VegaSetup.exe`. To install the program just double click on the icon program and follow the instructions. Please do not install the program in the folders “Desktop” or “Documents”, instead use the usual directories of `c:\programs\vega`, `c:\vega`, etc... without spaces in the name of the installation folder. After installation, the program can be run from the start menu in the usual way. Please note that:

`Vega.exe`                      refers to the version for individual tournament

`VegaTeam.exe`                refers to the version for team tournament

**Linux version:** Vega comes in the compressed archive `vegalinux.tar.gz`. To install the program, the user should create an installation directory and then extract the contents of the archive using “`tar xvf vegalinux.tar.gz`”. VEGA will be installed in the directory `vegalinux`. To run the program the user must change directory and enter the following command:

`./Vega`                        for individual tournament

`./VegaTeam`                for team tournament

In some distribution could be necessary to install some missing library.

**MacOSX version:** Vega comes in a `dmg` archive. Install it as usual moving the package in the Installation folder.

### Customizing the Menus

By default, Vega shows the menu in English. The user can select a different language using **Select Language** under the **Extras** menu. The program will need to be re-started for the changes to take effect. If necessary, the user can customize Vega’s text labels by editing the message catalog as described in Appendix A (Frequently Asked Questions).

### Uninstalling Vega

To uninstall the program, just run the uninstaller from the start menu. On Linux, simply erase the installation directory. On MacOSX simply remove the program from the Application folder.

### Reporting Bugs

The author will appreciate all comments, questions and bug reports (if any). To report a bug, send details to the contact address below. Attaching the zipped tournament folder will assist analysis.

E-mail: [vega@vegachess.com](mailto:vega@vegachess.com)

**License**

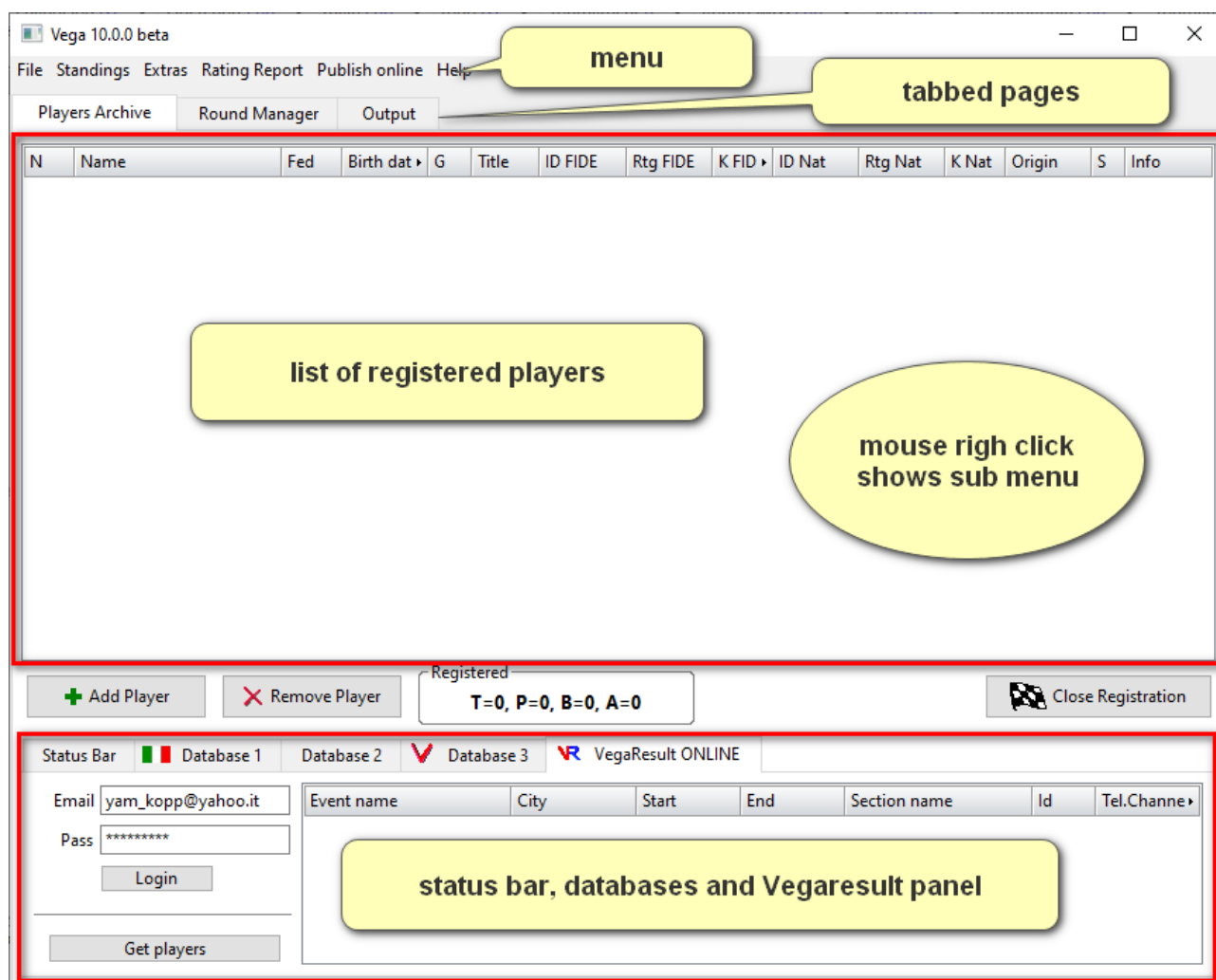
The user will find the program license in the installation directory (see Appendix B). The user must be aware that by using the program, he accepts all the terms of the license.

## 2. Vega for Individual Tournaments

In this tutorial the user will learn how to start a tournament, produce pairings, insert results and show the cross-table in the standard way (Sections 2.1 to 2.6). Section 2.7 describes some tasks such as modifying the tournament details that are sometimes necessary. Sections 2.8 – 2.10 describe the **Standings, Extras and Rating Report** menu items. Miscellaneous other tasks are covered in section 2.11.

The working area of Vega consists of a **menu bar**, 3 tabbed pages (**Players Archive, Round Manager, Output**), and a **status bar and database area**.

When the program starts, the page titled **Players Archive** is shown:



The **File** menu gives access to a series of operations including the opening and closing of files, the creation or modification of a tournament and exiting from the program. The three tabbed pages refer to three functions that the arbiter can perform during a tournament.

1. **Players Archive:** here it is possible to register players, close the registration and start the tournament, modify player details even after the tournament has started, manage withdrawals and late entries and print the list of players.
2. **Round Manager:** here it is possible to generate and modify pairings for the next round,

insert the results of the current round or revisit and correct previous rounds.

3. **Output:** here it is possible to visualize and print all the outputs from the program

Continuing the exploration of the Players page, we find the panel **Registered Players** in which the player data (name, Elo, etc ...) are entered, which ends with a summary of the registered players: T = total number of registered players, P = number of players present on the next round, B = players taking 1/2 of BYE on the next round, A = players absent on the next round.

At the bottom of the players page is the Status Bar which provides valuable information on the status of the tournament and suggests what to do. So you don't have to remember where you were the last time you turned off the computer, but Vega will assist you during the tournament.

To quit the working session, the user should select **Exit** from the **File** menu. To resume an old session, select **Open Tournament** from the **File** menu and look for files with a \*.veg extension in the working directory.

## 2.1 Creating a New Tournament

To create a new tournament, select **New Tournament** from the **File** menu. A new form will prompt the user to enter essential information required for the tournament (see illustration below) in two distinct pages: **Tournament definition**, **Tie Breaks**, **Arbiters**.

The screenshot shows a 'New Tournament' dialog box with three tabs: 'Tournament definition', 'Tie Breaks', and 'Arbiters'. The 'Tournament definition' tab is active. The form contains the following fields and controls:

- Tournament Name:** Text box containing '5 TORINO RAPID'.
- Place:** Text box containing 'TORINO'.
- Federation:** Dropdown menu showing 'ITA'.
- Begin Date:** Date picker showing '04/10/2023'.
- End Date:** Date picker showing '04/10/2023'.
- Rounds:** Text box containing '6' and a 'set schedule' button.
- Play System:** Dropdown menu showing 'Swiss FIDE Dutch (JaVaFo)'.
- Pairing-Allocated BYE value:** Dropdown menu showing 'Win'.
- Initial ranking list sorted by:** Dropdown menu showing 'FIDE rating (use National rating if 0)'.
- Score Game:** Dropdown menu showing '0 - 1/2 - 1'.
- Move rate:** Text box containing '12'+3" per giocatore'.
- Accelerated rounds:** Dropdown menu showing 'None'.
- Chief Arbiter:** Text box with a red arrow icon.
- Deputy Arbiter:** Text box with a red arrow icon.
- Organizer:** Text box containing 'ASD MIO CLUB'.
- Tournament folder:** Text box containing 'C:\Users\Vegachess\Desktop\vegatornei\vega9' and a 'set folder' button.

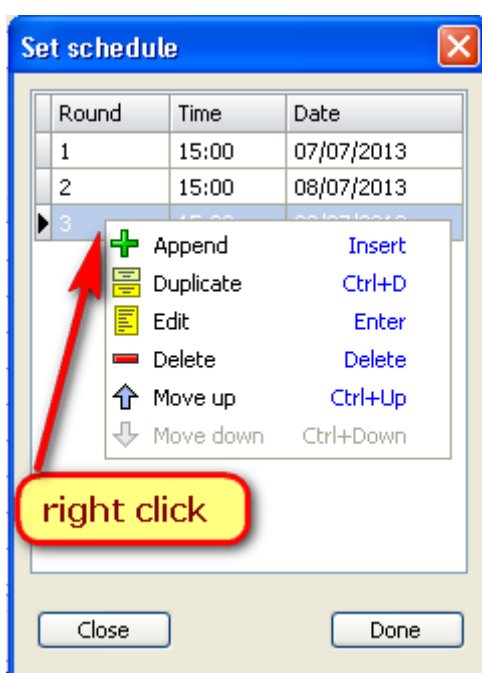
At the bottom of the dialog are 'Done' and 'Close' buttons.

The field **Federation** must contain the FIDE country code (3 characters). This information is important as it determines the national rating system and in the case of FIDE ratings, it affects the

international norms.

Please note that the **Rounds** variable will have no effect on Round Robin systems, since they are managed automatically by Vega.

The button **Set schedule** enables the user to enter time and date of each round. This info, if available, will be shown on the FIDE rating report and printed on the pairing sheet and web site as well. To enter the schedule, make a mouse right click and choose the desired action.

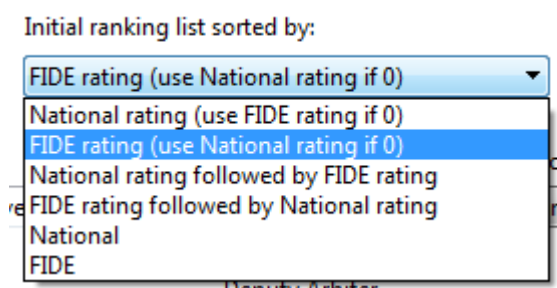


The **Play System** drop-down menu enables selection from several pairing system. For a brief guide on which Swiss system to use, see Appendix A: Frequently Asked Questions.

While a tournament is running Vega will permit the switch among Swiss systems. However the change of play system is forbidden by FIDE and Vega will prompt the user with a warning. So the switch of a Swiss play system in a running tournament should be limited to some rare and very special situation.

***NOTE:** Pairings for the **Swiss system FIDE Dutch, Dubov and Burstein** are performed thanks to the pairing engine **JaVaFo** © Roberto Ricca (<http://www.rrweb.org/javafo>). JaVaFo needs the Java Runtime Environment (JRE) at least version 7. The JRE can be downloaded from <http://www.java.com> (you may need to have the privilege of administrator to install it). Please download and install the 64-bit version if you are using Vega 64-bit version, otherwise download and install the 32 bit version if you are using Vega 32-bit version.*

**Initial ranking list sorted by:** Vega permits to assign a pairing number to each player in six ways:



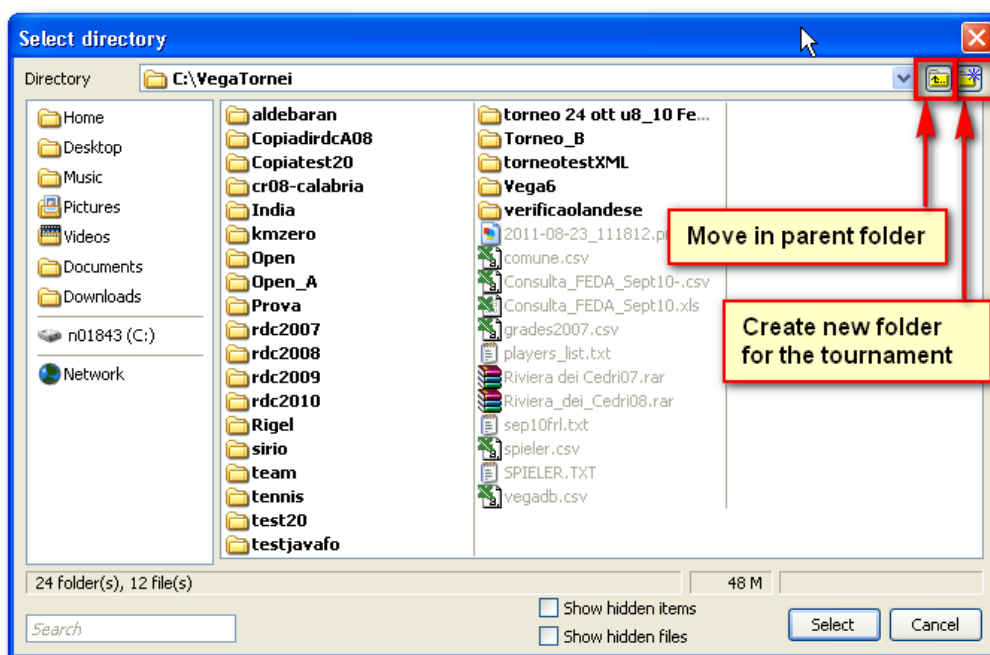


1. **National rating (use FIDE rating if 0):** The National rating will be used as the principal one. If the player is National unrated (Rtg Nat = 0), Vega will use his FIDE rating.
2. **FIDE rating (use National rating if 0)** (default): The FIDE Rating will be used as the principal one. If the player is FIDE unrated (Rtg FIDE = 0), Vega will use his National rating.
3. **National rating followed by FIDE rating:** The National rating will be used as the principal one. In case the players have the same National rating Vega will rank them according their FIDE rating.
4. **FIDE rating followed by National rating:** The FIDE rating will be used as the principal one. In case the players have the same FIDE rating Vega will rank them according their National rating.
5. **National:** Only National rating will be used as the principal one and the FIDE rating will be neglected.
6. **FIDE:** Only FIDE rating will be used as the principal one and the National rating will be neglected.

If the user prefers to run a tournament with accelerated rounds, then he can click the drop box **Accelerated rounds** and select the **FIDE system** that is automatically managed by Vega (see Baku system <https://www.fide.com/fide/handbook.html?id=204&view=article>).

Alternatively, the user can select a **custom** accelerated system. In this last case, before to close the registration, Vega will prompt for the required parameters.

Vega uses a working directory <TournamentFolder> in which it will store all the files generated during the tournament. Each tournament has its own working directory, if a tournament has many sections, then each of them should have its own directory. This directory is set by pressing the **set folder** button (see next picture).



**NOTE: It is recommended to avoid** accented and unusual characters (such as éçò<à°>@”#...) when inserting data in the tournament definition window. In fact, these characters collide with external program used in conjunction with Vega. For example, the file containing the games (PGN files) cannot be read by some software in case contain those unusual characters.

**NOTE:** The tournament folder should **NOT** be created in the installation folder, but in some area of the hard disk that any user may access, for example, **c:\mytournaments**.

Depending on your computer you may need the rights of administrator to create it and make it writable by all users.

Once the **New Tournament** form has been filled in, the user must click on **Done**. To correct these settings later on, select **Tournament Manager** → **Modify Tournament** from the **File** menu. In the page **Tie Breaks** the user can choose among different tie breaks.

Tie Breaks		Code
Buchholz Total	<input checked="" type="checkbox"/>	BH
Buchholz Cut 1	<input checked="" type="checkbox"/>	BH-C1
Buchholz Median	<input type="checkbox"/>	BH-M ▶
Buchholz Cut 2	<input type="checkbox"/>	BH-C2
Average of Opponents' Buchholz *	<input type="checkbox"/>	AOB
Sonneborn-Berger	<input type="checkbox"/>	SB
Koya System *	<input type="checkbox"/>	KS
Number of Wins *	<input type="checkbox"/>	WIN
Number of Games Played with Black *	<input type="checkbox"/>	BPG
(Sum of) Progressive Scores *	<input type="checkbox"/>	PS
Games one Elected to play *	<input type="checkbox"/>	GE
Direct Encounter (all play all)	<input type="checkbox"/>	DirE
Direct Encounter (recursive) *	<input type="checkbox"/>	DE
Arranz system	<input type="checkbox"/>	Arranz
Standard Score (0-1/2-1)	<input type="checkbox"/>	StdScr
Average Rating of Opponents *	<input type="checkbox"/>	ARO
Average Rating of Opponents Cut 1 *	<input type="checkbox"/>	ARO- ▶
Tournament Performance Rating *	<input type="checkbox"/>	TPR
Average Performance Rating of Oppon ▶	<input type="checkbox"/>	APRO
Perfect Tournament Performance *	<input type="checkbox"/>	PTP
Average Perfect Performance of Oppon ▶	<input type="checkbox"/>	APPO

(\*) according to FIDE (Baku 2023)

**Selected Tie Breaks**

1: Buchholz Total  
2: Buchholz Cut 1

**Unplayed games in Swiss system**

opponent games (adjusted score)  
Draw (Kallithea 2009 - FIDE)

own games  
Virtual Opponent (Kallithea 2009 - FIDE)

HPB: score of the dummy is zero

**Tie break based on rating**

Set unrated to: 1000

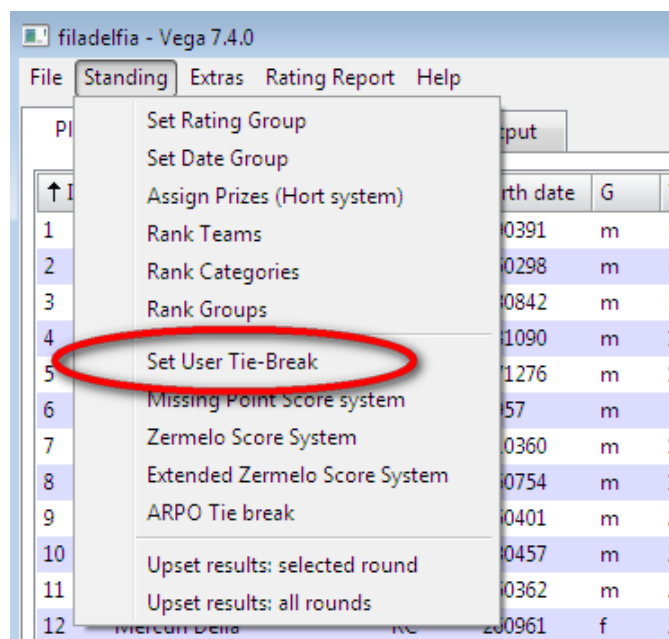
The available tie breaks denoted by \* follow the rule C.07 of FIDE Handbook (<https://handbook.fide.com/chapter/TieBreakRegulations2023>). That document explains how to handle the unplayed rounds.

Are listed even some used tie breaks:


- *Direct Encounter (all play all)*: Results of direct encounters between the tied players. This tie break applies only if all tied players have played each other. In case of new tied the next tie break is applied.
- *Standard Score (1-1/2-0)*: The score is determined assigning 1 point for win and ½ point for draw. This tie break is useful if another score system is used (for example 3-1-0).
- *User Tie Break*: manual tiebreak

To set the *User Tie Break*:

- 1) select it in the tie break list in any order you like;
- 2) to set its value the user should click the item menu **Standings/Set User Tie-Break**

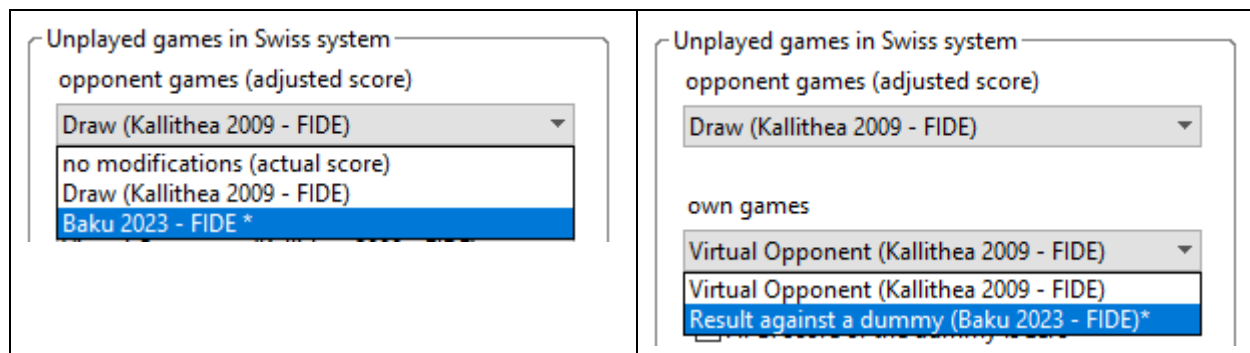


A new panel will prompt the user for the tiebreak values (format xxxx.x). The values are saved in the file usertb.txt. In order to update the standings click **Update Cross Table** button in round

manager page .

3) For all successive rounds Vega will use always the same values. If the user wants to update them then go to step 2).

To consider the unplayed rounds according the new C.07 FIDE rules select the options as shown below (The old Kallithea rule is the default till 1 April 2024 and then no longer applied).



Moreover, it is possible to exclude from the tie-break calculation any pre-arranged ½ point bye (sometimes referred to as “draw to forfeit”) by checking/unchecking the option

HPB: score of the dummy is zero

**NOTE:** After applying the selected tie breaks Vega will list further tied players in ascending order of their pairing number. This order should not be considered an extra tie-break. In order to break the tied players, the user should choose additional criteria.

Tie breaks based on opponent ratings can be used only if all players have a ratings. The following option permit to set a default value to the unrated.

Tie break based on rating

Set unrated to:

In the page **Arbiter** it is possible to enter all the arbiters of the tournament. This will affect an easier administration of the FIDE certificate IT3, FA1, IA1 where all forms will be automatically filled.

New Tournament

Tournament definition Tie Breaks Arbiters

Add arbiter manually

ID FIDE	Name	Title	Fed	Chief	Deputy
2297868	Perez Llera, Javier	IA	ESP	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2803637	Balzarini, Tiziana	IA	ITA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
815675	Forlano, Luigi	IA	ITA	<input type="checkbox"/>	<input type="checkbox"/>

Search arbiter in ARBITERS.CSV

The arbiters are added as usually done for the players. The arbiter database should be downloaded from the FIDE site, <https://arbiters.fide.com/arbiters/arbiters-database> . It is a PDF file that need to be converted in CSV format. This can be done online (for example the following site do it for free <https://www.zamzar.com/converters/document/> ) . Here is how looks like the converted file:

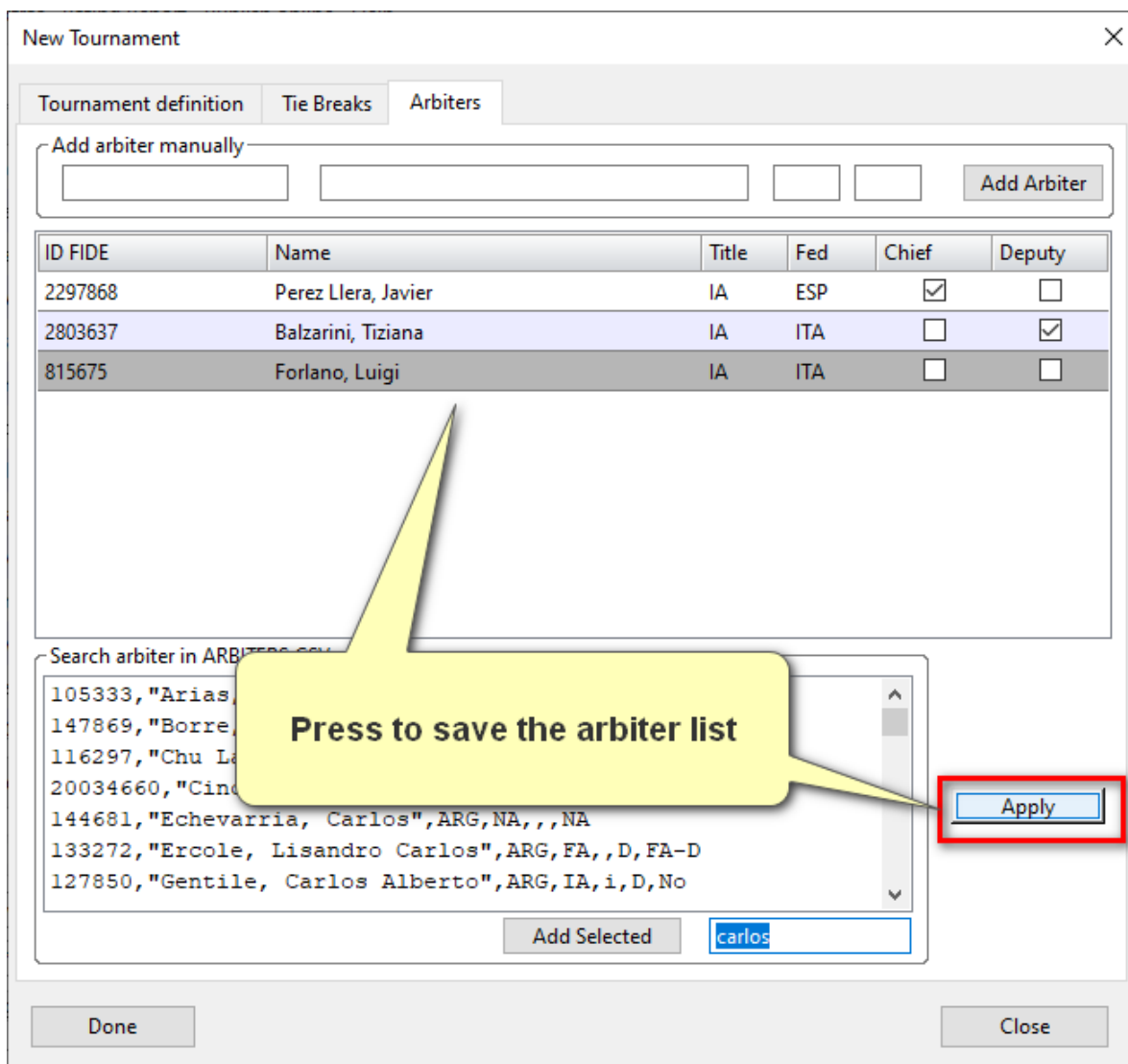
```
FIDE ID,Name,Fed,Title,Flag,Category,License level
11700467,"Abdul Khaliq, Wais",AFG,FA,i,D,FA-D
11702397,"Asadi, Allah dad",AFG,FA,i,D,FA-D
```

11700025,"Asefi, Zaheeruddeen",AFG,IA,i,D,IA-D  
 11702206,"Ashna, Abdul rafee",AFG,FA,i,D,FA-D  
 11701390,"Azizi, Setareh",AFG,FA,i,D,FA-D  
 11700351,"Baha, Karim",AFG,IA,i,D,No  
 11702192,"Baharustani, fazelullah",AFG,FA,i,D,FA-D  
 11701889,"Faqiri, Sayed Abdul hadi",AFG,FA,i,D,FA-D  
 11700599,"Farazi, Khaiber",AFG,FA,i,D,FA-D

...

The converted file should be renamed `arbiters.csv` and moved in the same folder of the others FIDE databases.

After having added the arbiters the list is saved using the button **Apply**.



The Chief Arbiter and his/her Deputy can be retrieved as shown below

## 2.2 Registering Players

After creating a new tournament, the user must enter player information in the **Players Archive** page. Players are entered clicking **Add Player** and filling out the fields in the Registered Player area. (It is also possible to enter players by importing them singly or in groups from a pre-existing database – see Section 2.11.3.)

5	Ibarra Jerez, Jose Carlos	ESP	1985	m	GM	2226332	2522	10	13507	2600	0	AND
6	Forlano Luigi	ESP	1976		GM	2203138	2511	10	2123	2600	0	EUS
7	Reinaldo Castineira, Roi	ESP	1980	m	IM	2206609	2482	10	2804	2450	0	GAL

To accept the data, the user needs to perform a mouse left click outside the inserted record (the red box in the above picture) or press the key ENTER.

While the registration remains unclosed, the selected player can be moved up and down using CTRL + Up and CTRL + Down.

Each registered player receives a temporary pairing number, N, that may change until the registration is closed.

To print the player list just click on

**Extras → Print registered players.**

The information to be supplied during registration is:

**Name:** Last and first name for a total of 30 characters.

*NOTE: Only the Name field is mandatory for adding a player.*

**Fed:** Three characters for the Federation of the player. For FIDE tournaments enter the exact FIDE code, otherwise Vega will not calculate the resulting FIDE norm correctly.

**Birthdate:** 10 characters (actually it is a string and no preventive control is performed. See Section 2.8 for more details). The user must enter the date of birth in a consistent way with the rating report.

**Gender:** Choose between ‘m’ale and ‘f’emale (default = ‘m’).

**Title:** Choose one of the listed category. The FIDE titles are: **GM, WGM, IM, WIM, FM, WFM, CM, WCM**. Instead the national categories are: **M (master), CN (candidate master), A=1N, B=2N, C=3N, D, E**. The player without a title/category is denoted by NC or blank.

**ID FIDE:** FIDE code in 9-digit format (default = 0).

**Rtg FIDE:** Current FIDE rating of the player (default = 0).

**K FIDE:** Coefficient for FIDE rating calculations. It is permissible to retain the default value (0) for K. However, FIDE values are:

K = 40 for a player new to the rating list until he has completed events with at least 30 games

K = 20 as long as a player's rating remains under 2400.

K = 10 once a player's published rating has reached 2400 and remains at that level subsequently, even if the rating drops below 2400.

K = 40 for all players until their 18th birthday, as long as their rating remains under 2300.

**ID Nat:** Player national code in 9 digit format (default = 0).

**Rtg Nat:** Current national rating of the player (default = 0).

**K Nat:** Coefficient for national rating calculations (default = the last inserted value).

Vega can be modified in order to meet specific requests from other Federations. In this case please contact the author.

**Origin:** supplementary field that can contain the player’s region, state, province, club name... In some tournaments this field can be used to get a standings by team (see section 2.7).

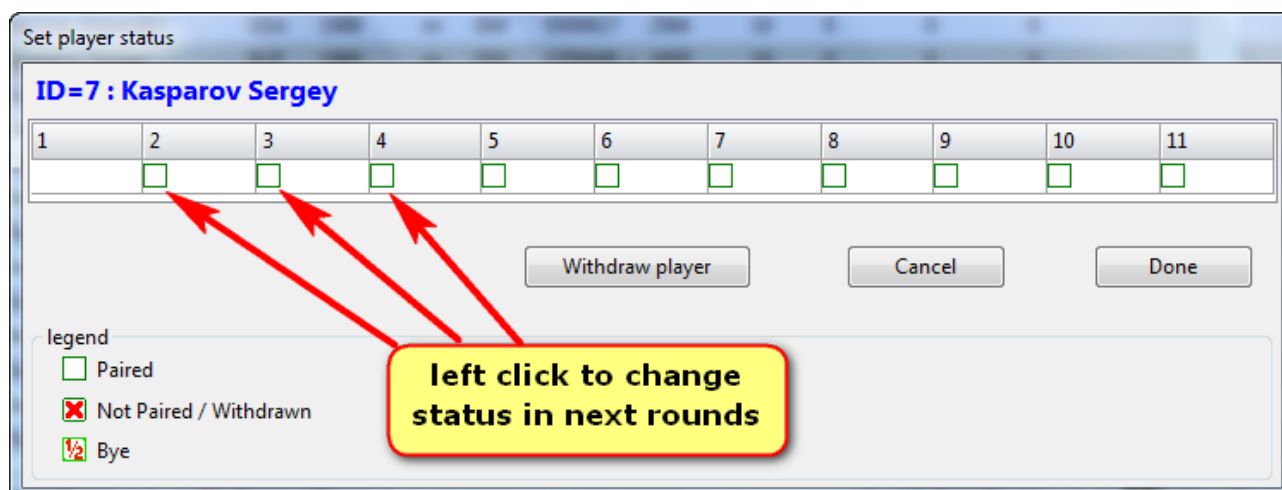
**Info:** supplementary field that can contain the email, hotel, telephone number and so on.

**Status:** The status of each player can be changed at any time by a right click on the player name and then selecting **Set Player Status**. A new window will open to set status for the remaining rounds.

6	Ramirez Alejandro	USA	1988	m	GM	6500617	2564	10	0	0	(	
7	Kasparov Sergey	BLR	1968		GM	1250040	2450	10	0	0	(	
8	Sonis Francesco	ITA	2002					20	10	0	0	(
9	Gonzalez Trigal Jose Luis	ESP	1988					01	10	0	0	(
10	Martinez Ramirez Lennis	CUB	1993	m	FM	3509079	2394	10	0	0	(	

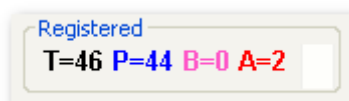
A player at a given round can be in one of three possible states: **Paired**, “white” color, the player is available to play this round; **Not Paired/Withdrawn**, “red” color - the player is not available for this round; **Byed**, “yellow” color -the player has a pre-arranged draw/BYE. The **Byed** status should assigned to those players that surely does not participate in that round and asked to be awarded of half point according to the tournament rule. All other players that may show up later and may be paired need to be temporarily set as **Not Paired/Withdrawn**. In fact their actual result can be set later at

the end of the round.



To remove the player from the remaining rounds, press the button **Withdraw player**. To accept the settings press button **Done**.

It is possible to inquire the history status of all players via the menu item **Extra/Show players status**. Moreover, Vega shows a summary towards the bottom of the **Player Archive** page regarding the status of all registered players



**T** = total number of registered players; **P** = Playing players in the current round (players appearing in the pairing); **B** = players that got a draw/ BYE; **A** = absent players.

To modify a player already added, the user should right click the wanted player and choose **Edit**. To accept the modification it is necessary left click the mouse in any place inside the registered player area.

To delete a player the user should:

1. Select the player in the Player list (multiple players can be selected using the **CTRL** and **SHIFT** keys).
2. Press the button **Remove Player**.

The players and tournament data are saved in the file <TournamentFolder>.veg.

### 2.3 Closing the Registration

When the user has finished inserting the players, click the **Close Registration** button to start the tournament. Vega will re-order the list of players according to the play system of the tournament and assign a definitive **pairing number** denoted by **N** to each player.

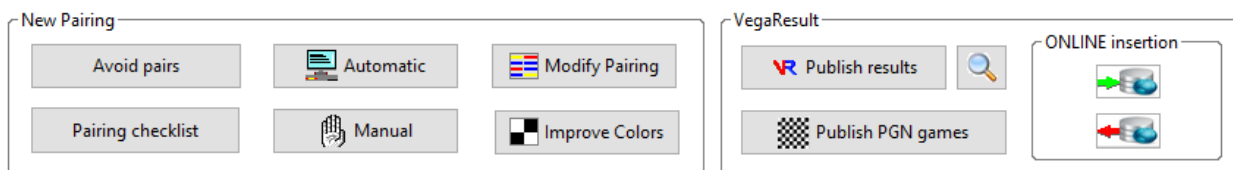
Once the registration is closed, it is not possible to remove players, only modify existing ones. The user can add *late entrants* by pressing the **Add Player** button (see section 2.11.5 for details).

### 2.4 New Pairing

The pairing is performed in the **Round Manager** page. The buttons perform the following

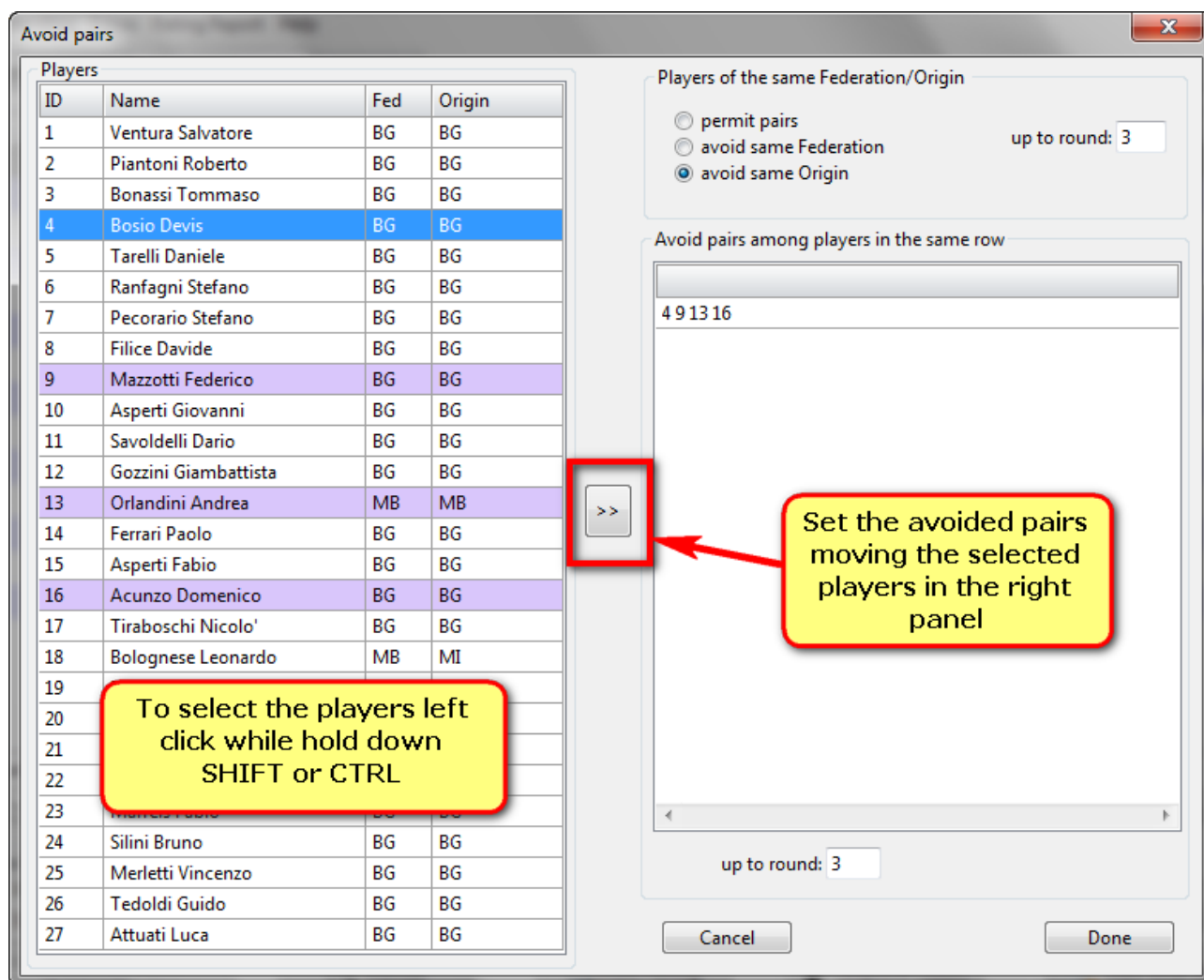


operations:



**Pairing checklist:** save the file `checklist.txt` that may be used as basis for most of Swiss pairing systems. For each player is shown his color history, opponent history, score group, last float, color preference. It is made by the engine JaVaFo and its explanation can be found here [http://www.rrweb.org/javafo/aum/JaVaFo2\\_AUM.htm#\\_Toc465604123](http://www.rrweb.org/javafo/aum/JaVaFo2_AUM.htm#_Toc465604123).

**Avoid Pairs:** Pressing this button opens a new window in which the user can indicate which pairs should be avoided in the next pairing. For example, the following picture shows a typical setting that avoids pairs among players of the same Origin up to round 3. Also prevented are pairs among players 4, 9, 13, 16.



**Automatic:** Instructs Vega to produce pairings according to the selected pairing system. In the case of an odd number of players, depending on the pairing system, Vega automatically assigns a BYE. The fictitious player is assigned with  $N = 0$  and a name of **BYE**. The user can exchange the colors of a pair by a double click on the selected pair.

**Manual:** The user can create their own pairing and Vega will check the legality of each inserted pair. More details about this important function can be found in section 2.9.1.

**Improve colors:** Permits a quick exchange of colors. See Section 2.11.8 for details.

**Modify Pairing:** Permits modification of the current pairing. See manual pairing for details.

**Publish results:** Uploads the tournament to the VegaResult site (see chapter 3 for details).

**Publish PGN games:** Uploads the game in pgn format to the VegaResult site (see chapter 3 for details).

**Show Site:** Open the browser to show the site published by VegaResult site (see chapter 3 for details).

## 2.5 Result Entry

The results are entered using the **Insert Result** panel in the **Round Manager** page. It is possible to enter results of the current round or modify those of past rounds. The results are entered by choosing a pair in the pairing list and then clicking on the button corresponding to the result:

585	Azpeitia Santidrian Carlos	0.0	1174	...	781	0.0	Albano Francesco
586	Ramirez Cintia	0.0	782	...	1173	0.0	SangiovanniMarcello Cordeiro
587	GM Vescovi Giovanni	1.0	4	½	0	0.0	( half point bye )
588	GM Rambaldi Francesco	1.0	5	0	0	0.0	( not paired )
589	Walschus,Uwe,Dr.	0.0	1175	0	0	0.0	( not paired )
590	GM Blübaum,Matthias	0.0	1176	0	0	0.0	( not paired )

Insert result

Show results

Round **2**

The 'F' denotes a forfeit. Alternatively, the user can enter the result by pressing the following keys:

- 1 : 1 - 0,
- 0 : 0 - 1,
- 5 : ½ - ½,
- 3 : 1F - 0F,
- 4 : 0F - 1F,
- 2 : 0F - 0F,
- 7 : adj = adjourned (it is equivalent to ½ - ½ for pairing purpose);
- 9: delete the current result.

The consequences of a forfeit in Vega are:

1. For the purpose of rating variations, the game is considered as not played for both players (so that they can be paired again in subsequent rounds).
2. The winner will get +1 point.
3. The color for that round is considered NO\_COLOR for both players.
4. For tiebreak purposes the forfeit will be handled as specified at the tournament definition.

The pair with the BYE is assigned a N = 0 and the name **BYE**.

**NOTE:** The user can exchange colors of a pair by a double clicking on that pair.

**NOTE:** To restart entry from the first pair, press the ENTER key.

A non-standard result, for example  $\frac{1}{2} - 0$ ,  $0 - \frac{1}{2}$ ,  $0 - 0$ , can be assigned using the button **not standard** and filling out the following form:

See Appendix A, question 15 for further info about non-standard results.

The 'U' denotes an unrated result, i.e. it is considered as played but not valid for the Elo rating variation or norm calculations.

The pairing shows at bottom the players excluded from pairing (absent players or those that have required a  $\frac{1}{2}$  point BYE).

The button permits to alter the result and status for that round of the unpaired players. It permits to switch between 0, half and full point BYE.

*NOTE: FIDE deprecate the full point BYE. Vega will warn the user when try to set such result.*

After choosing a result, Vega will automatically move on to the next pair. The results should all be entered before performing a new pairing or modifying an old one. If the user is not able to finish this operation in one session then he can **Save** the data and **Exit** from Vega. Upon restarting, Vega will remind the user to finish entering the round.

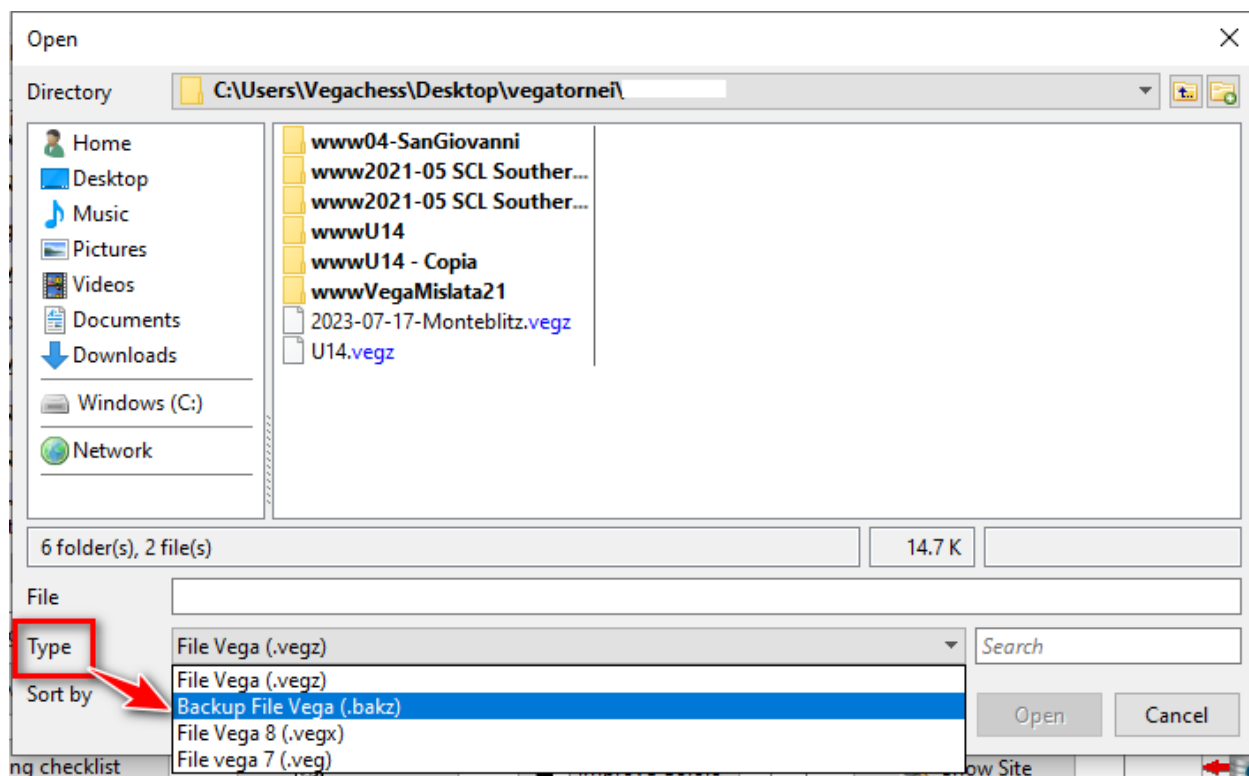
In case of a big tournament the user may want to show only the pairs without results. This is done with the button . The button will show all pairs again. Once entry is complete, Vega will automatically update the Cross Table.

*NOTE: Vega automatically updates the cross table and ranking list when important parameters are changed (player data, tie-breaks...). However, if the user wants to force the update of the cross table, he must press the button .*



The data concerning the tournament is stored in the file <TournamentFolder>.vegz. It is a standard ASCII file and is updated when the user presses **Save Tournament**. Although it can be modified using most editors, the user should not do so for risk of seriously damaging the tournament data.

If the user wants to correct results or just show previous pairings, they must first choose the round. To this end, select the round number in the **round** field. All the pairings for that round are displayed and the user can, as usual, select the pair and the result.

Before performing a new pairing, Vega produces a backup file named <TournamentFolder>-VEGZ-N.bakz. where N is the last completed round. If for some reason the normal file is damaged, the backup can be loaded as a usual vegz file selecting the type bakz




## 2.6 Cross Table and other useful reports


Moving on to the **Output** page, the user can visualize and print several files. A few generated files have the extension QTF and when printed, result in higher quality output. These files are in Rich Text Format and can be modified within Vega using the UWord editor, by pressing the  button. All other files can be opened with the  button.


Files relevant to the tournament can be shown by pressing the buttons in the Output page. They are:


**Cross Table,**  .





**Sorted Cross Table**  produces a cross table in which the pairing number of each player is regenerated according to his rank.

**Standing,**  file standing.qtf displays the first three tie-breaks criteria


**Standing,**  file standing.txt displays all tie-breaks criteria


**Board Cards,**   : labels to put on the table. The labels starts from number 1, but other number can be set.


**Pairing**, . pairing with results after insertion.

**Print**,    : prints the contents of the window. The number in the box indicates the point-size of the text to be printed and not of the text to be showed in the window. The user can print the selected text with the  button (does not work with qtf files). A preview is shown before printing commences. The option  permits to choose what to print in the standings and/or in pairing.

**Print registered players**, 

**Print schedule** (if set in tournament definition), 

**Set multipage printing**,  : permits to select which documents to print and how many copies each.

**Print all documents at once set with the previous option** 

## 2.7 File → Tournament manager

**Delete Round** will delete the current round and bring Vega to the state of “Waiting for pairing” in the previous round. Vega stores all the data of past rounds so the tournament can be undone right back to the first round this way.

**Reset Tournament** will return Vega to the first round with the same players, including the late-comers. This could be useful during a simulation of the tournament.

**Modify Tournament** permits the modification some of the tournament parameters.

**Reopen Registration** will return Vega to the state it was in before closing the registration. The arbiter then must again close the registration to start the tournament.

## 2.8 The “Standings” Menu

**Rank Rating Group.** This generates the file `rankgrp.txt`, containing ranked groups of players, the groups being defined by specifying rating ranges.

**Rank Date Group.** Generates the file `rankdagr.txt`, containing ranked groups of players, the groups being defined by specifying the year of birthday (format YYYY) ranges. The player date format could be one of the following: `ddmmyy` (if `yy<20`, it means 20yy, otherwise it means 19yy). Also valid are `yyyy`, `yyyy.mm.dd`, `yyyy/mm/dd`, with `mdy` in any order.

**Missing Point Score System:** This is a new way to calculate the final standings in a Swiss tournament. The method pretends to transform the Swiss system into a round-robin tournament and tries to predict the results of games amongst players that were not paired in the Swiss tournament. This is performed by analyzing the cross table and the relationships between all players via their common opponents. The details of the pairings are saved in the file `mpscorelog.txt`, while the new ranking is stored in `mpscore.txt`. Further details can be found at [www.vegachess.com/Swiss/missingpoint.htm](http://www.vegachess.com/Swiss/missingpoint.htm)

**Zermelo Score System, Zermelo Score System Extended:** This is a new way to calculate the final standings in a Swiss tournament. See Appendix L for details.

**Assign Prize (Hort system).** This system aims to better distribute the prize money amongst players on same points at the end of the tournament. Here is an example of this system; suppose 4 players share the same place. The four prizes are as follows: 1st €10.000, 2nd €8.000, 3rd €6.000, 4th

€4.000. We have to split €28.000. We split this amount in two equal parts, each of €14.000.

The first part will be split equally and each player receives €3.500.

The second part will be split according to the ranking after a tie-break.

#1 receives €3.500 + €5.000 = €8.500

#2 receives €3.500 + €4.000 = €7.500

#3 receives €3.500 + €3.000 = €6.500

#4 receives €3.500 + €2.000 = €5.500

(Please note that the amounts €5.000, 4.000, 3.000 and 2.000 are just half of the original prizes.)

**Rank Teams.** This saves a ranking of all teams (players with the same Origin field) participating in the tournament, to file rankTeams.txt. The points of a team are the sum of points of the best N players of that team. N can be defined and its default is 4. It also shows the ranking applied individually to the first N boards.

**Rank Categories.** This writes a ranking of players grouped by their grading categories to the file rankcat.txt.

**Rank Groups.** This writes the ranking of a tournament set as explained in Appendix M.


**Upset Results:** are those results in which a lower rated player win against a higher rated player. The standings is based on the rating difference (draw count half difference) and can be obtained for each round or for all rounds.

**Standings with FIDE and National rating:** show the usual standings but with both rating FIDE and national.

## 2.9 The “Extras” Menu

Items that are not self-explanatory are described below.

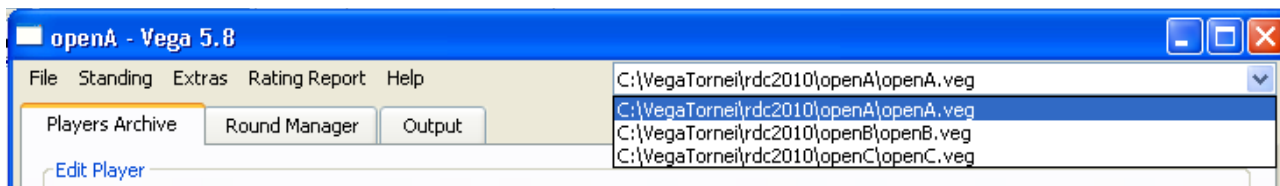
**Set Group for accelerating pairing.** Please see section ‘2.11.9 Accelerated rounds’ for details.

**Make Badge.** It prepares form with key words to be filled with values referring to the tournament data. The form should be in the folder /badgeTemplate in the installation folder. They can be prepared/modified by using the integrated editor in the page Output (icon ). These are the key words that can be used:

```
##PLAYERNAME : player name
##TOURNAMENTNAME : tournament name
##RTGFIDE : FIDE rating
##RTGNAT : Rating/grade national Rating/grade
##RTG : Rating/Grade used for pairing
##PLAYERID : pairing number N during the tournament
##DATAB : tournament begin date
##DATAE : tournament end date
##TITLE : player title
##TOURNAMENTPLACE : place tournament
##ORIGIN : player origin (club, province, region, ...)
##COUNTRY : player federation
##IMAGE : player federation flag
```

**Set memo message.** Lets the TD set a remark that will be prompted at a given round. This feature is useful to take note of those players that need to be excluded/included at a given round.

**Set Festival.** This permits to indicate the sections of a tournament. A drop down menu will appear on the right side of the menu bar listing all the sections. The user can quickly jump among the sections selecting them. Before opening a new section the current one is automatically saved.



**Festival statistics.** Save a file with relevant statistics regarding all sections of the event.

**Round Robin Calendar.** This saves all pairings in a round-robin tournament to the file pairsRR.txt.

**Add external pairing engine.** See Appendix N.

**Regenerate pairing number.** Vega assigns to each late entrant a progressive pairing number (N) irrespective of his rating. The pairing number affect the pairing of systems such as FIDE **Swiss Dutch** and **Swiss Burstein**. So it is mandatory for these systems to reassign the correct pairing number to each player and that is performed via this option.

**NOTE that FIDE:**

a) permits to reassign the pairing number at any rounds when a late entry joins the tournament;

b) forbids to change the pairing number after the fourth round has been paired due to modification of rating/title/name of a player.

**NOTE:**

Vega does not know the reason behind the regeneration of the pairing number and will permit it anytime. However, if the option is used after round 4 has been paired it will warning the user to not break the previous FIDE rule.

**Add QR code to Vegaresult:** generate and save in the tournament folder a QR code printed in pairings and standings. The QR encode the tournament link to the Vegaresult site. To remove the QR code simply delete the file qr.png in the tournament folder.

**Print Swiss cards:** print the Swiss pairing card that can be used in case of manual pairing. If printed at round 1 the cards will be empty, otherwise they will contain all data known at the current round.

**R:** round;

**C:** color;

**F:** floater history according to the selected Swiss system (▼=downfloater, ▲=upfloater);

**OPP:** opponent N number;

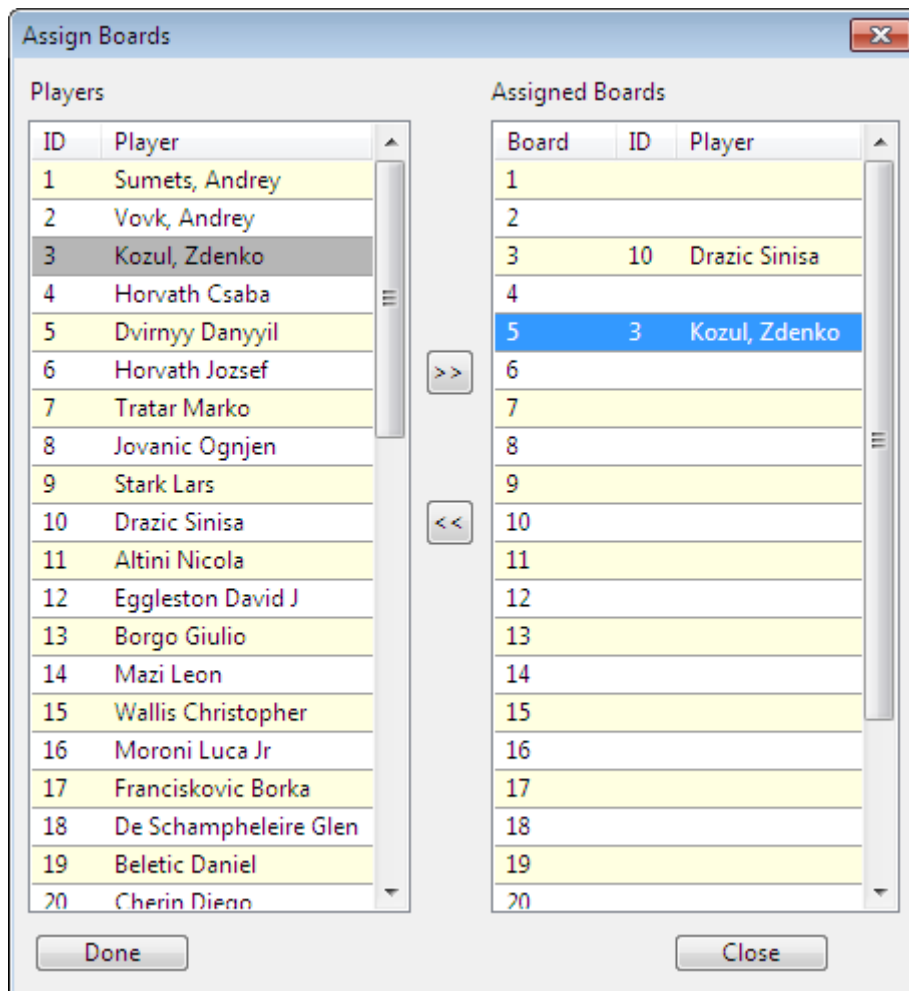
**Res:** round result;

**Score:** score at the given round;

**Ex:** this coloumn must be filled by the arbiter extra data useful for the next pairing, for example the expected color and/or fictious points in case of accelerated Swiss system.

15		Forlano Luigi				
	ITA	CN			2035	
R	C	F	OPP	Res	Score	Ex
1	=		5	0	<b>0</b>	
2	▪		20	0.5	<b>0.5</b>	
3	=		9	0.5	<b>1</b>	
4	▪	▼	BYE	0	<b>1</b>	
5	▪		21	1	<b>2</b>	
6	=	▼	16	0.5	<b>2.5</b>	
7						
8						
9						

**Assign Players to Board:** a player can occupy the same table in each round. This is done (see next picture) by selecting the player and the board, then pressing the button [>>]. To remove him from the assigned board select the board and press [<<].



## 2.10 The “Rating Report” Menu

From this menu it is possible to generate several rating reports intended for submission to a number of Chess federations.

### FIDE:

1. **Rating Report** permits insertion of new data and the creation of a rating report to be sent to FIDE. The created file is named FIDE-<TournamentFolder>.TRF. The report is not saved if there are still present adjourned games and/or unfinished games.
2. **History Card:** For a Swiss tournament this contains the player cards of all FIDE rated players and those unrated players that have played against at least one FIDE rated player. The rating variation calculation by Vega uses the following FIDE formula:

$$R = R_0 + K \sum_i (P_i - PA_i)$$

Where R is the final rating,  $R_0$  is the initial rating,  $P_i$  is the player score result of round i (1, 0.5 or 0),  $PA_i$  is the score probability depending upon the rating difference between the player and their opponent at round i.



If  $K = 0$  (the default value) the rating variation will be shown in units of  $K$ .

3. **Find Norm** produces the file `fidenorm.txt` containing a list of players and their performance relative to various title norms (GM, IM, WGM, WIM). Moreover, a grid is displayed with the same info.
4. **Tournament statistics.** This reports general statistics of the tournament to the file `tourstat.txt`. It contains the number of federations, number of rated and unrated FIDE players, titled players, etc.
5. **Norm certificate IT1:** saves the files `fidenormID=NasX.txt` (in text format) and `fidenormID=NasX.qtf` (in qtf format) containing the FIDE norm certificates:  $N$  is the player pairing number, and  $X$  is the sought norm (GM, IM, WGM, WIM).

**WARNING:** Vega performs the calculation regarding the rating and produces a detailed report. It is responsibility of the Arbiter to check that all the FIDE requests are present in order to validate the certificate (i.e. number of unrated, number of titled players, etc...).

6. **Statistics:** saves the file `tourstat.txt` containing useful information about the tournament.
7. **Tournament certificate IT3:** produces the file `FIDE-IT3.qtf` containing statistical information on the tournament.
8. **Import tournament in FIDE 2016 format:** can import the data tournament made by another program. The format used is the so called TRF2016 described here [https://www.fide.com/FIDE/handbook/C04Annex2\\_TRF16.pdf](https://www.fide.com/FIDE/handbook/C04Annex2_TRF16.pdf)
9. **Performance Calculator:** permits to performs some calculations regarding the performance rating. (see picture below)

Calculate Performance ✕

Player N 26 Song, Raymond, FM, 2471

R	N	Opponent Player	Title	Fed	FIDE Rtc	Rtg floor	Points	include
1	196	Menac Comas, Joan Ramon	CM	ESP	2078	<input type="checkbox"/>	1	<input type="checkbox"/>
2	118	Lever, Erwan		FRA	2240	<input type="checkbox"/>	0	<input checked="" type="checkbox"/>
3	182	Chirivi C, Jenny Astrid	WIM	COL	2104	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>
4	128	Ventura Bolet, Alexandre		ESP	2208	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>
5	77	Guerra Rivera, Salvador	FM	ESP	2344	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>
6	43	Haast, Mark	FM	NED	2413	<input type="checkbox"/>	0.5	<input checked="" type="checkbox"/>
7	58	Valenzuela Gomez, Fernando	IM	CHI	2388	<input type="checkbox"/>	0.5	<input checked="" type="checkbox"/>
8	57	Dominguez Pons, Eric	FM	ESP	2390	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>
9	61	Panelo Munoz, Marcelo A.	IM	ARG	2378	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>
10	6	Henriquez Villagra, Cristobal	GM	CHI	2562	<input type="checkbox"/>	0	<input checked="" type="checkbox"/>

	ARO		Tot	N
	2336		6	9

Performance rating  
 Required points based on the rating threshold of: 2450 IM, Rtg floor 2050

Performance Rtg: 2461

required points: 6.0 (+0.0)

Calculate/Update
Copy grid in clipboard

The user can enter the player pairing number N and press the ENTER key to list his opponents and rating details. The window will show the total score made by the player and his average rating opponent. The bottom part of the window shows the performance rating based on the actual score.

The **required points** represent the points necessary for a performance rating at least equal to the rating threshold (set to 2450 in the previous picture). Together the required points are indicated the points difference with respect the actual score. For example: “4.0 (+2.5)” means that to get a 2450 rating performance the player needed 4.0 points, but he made +2.5 more than necessary. In our previous case the player realized “6.0 (+0.0)”, i.e. the exact point required for the norm on IM.

By a mouse right click on the right column “include” the user may decide which game enter the calculation. The user can even change the opponents rating and rise it to the “Rtg floor” for that norm.

Then by pressing the button Calculate/Update he can redo the calculations. The user can even change the opponents rating.

This panel is useful when are played more than 9 rounds and a player need to select only 9 of them to check if a norm has been done.

**10. Norm Prediction Points (Round Robin):** generates a table showing how many points a player should get at a given game to achieve an international norm.

Players/Games	1	2	3	4	5	6	7	8	9	10
SONIS Francesco										
ARO	2556	2523	2539	2511	2491	2494	2495	2488	2494	2495
points for GM norm	1.0	1.5	2.0	2.5	3.5	4.0	5.0	5.5	6.0	6.5
GILEVYCH ARTEM										
ARO	2506	2473	2495	2497	2481	2494	2493	2503	2492	2494
points for IM norm	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.5	4.5	4.5
points for GM norm	1.0	1.5	2.0	3.0	3.5	4.0	5.0	5.5	6.0	6.5
GENOCCHIO Daniele										
ARO	2506	2506	2484	2498	2498	2485	2495	2495	2503	2496
points for GM norm	1.0	1.5	2.0	3.0	3.5	4.0	5.0	5.5	6.0	6.5
VALSECCHI Alessio										
ARO	2556	2523	2539	2511	2491	2494	2495	2488	2494	2487
points for GM norm	1.0	1.5	2.0	2.5	3.5	4.0	5.0	5.5	6.0	7.0

**USCF:** This generates the files used by USCF (USA) for rating reports (see Appendix O for details).

**FSI:** This generates rating reports for the Italian chess federation (see the Italian version of this user manual for details).

**ECF:** generates rating reports for the English chess federation. (See Appendix H for details.)

**DWZ:** generates rating reports for the German chess federation.

**NZCF:** generates rating reports for the New Zealand chess federation.

**Generic Tournament Description file:** it is a general-purpose rating report format. It is very similar to the FIDE one but includes even national data (see Appendix P).

**Rating report for other federations can be provided free of charge. Please contact the author.**

**Convert National Archive to UTF8 encode.** This option transforms the native encode of an archive to UTF8. In this way Vega can read correctly special characters of a given alphabet. For example, this option with Latin 1 alphabet, should be used by the arbiter of German chess Federation to transform the file spieler.csv in the file spieler.csv-utf8.csv encoded in utf8.

## ***2.11 Special Tasks***

### **2.11.1 Manual Pairing (not for the round-robin system)**

Vega allows easy insertion of manual pairings. This is done by pressing the button **Manual**. The pairing continues by filling in the fields labeled 'White' and 'Black', then pressing the button **Add Pair**. The user can enter IDs with the mouse by selecting the players in the list of the **available players** at the top right of the window. In this list the players are sorted by score, rating and name; it even shows their duecolor (Col) and whether is changeable or fixed (c=F).

The pair is accepted only if it is legal (green label **OK**) and it is refused if illegal (red label **NO**). The user need not be concerned about the colors because Vega will assign it automatically when the user presses the **Done** button. Only in the first round will Vega accept colors entered by the user.

***NOTE:** it is recommended that the user has a clear idea about which pairs he wants to add and write down them on paper before proceeding. The user can change the order of the pair or assign a table to a particular pair by selecting the pair and then pressing the keys CTRL+'Up' or CTRL+'Down'.*

To remove an inserted pair, the user must press the **Remove Pair** button. During the entry, Vega shows the number of the remaining players to be paired and the number of pairs already inserted.

***NOTE:** the Pairing Allocated BYE (PAB) can be assigned manually in the same pairing only one time. Vega will not permit multiple PAB.*

The bottom left panel contains the players unavailable for that round, i.e. players absent for that round or that withdrew the tournament. The players that got byed points via the set status option are not listed. In case a pairing has been already done the list include any late entrants.

Manual Pairing

Current pairing

NW - NB	White Player	Black Player
11 - 1	Murgia Andrea ( 1.0)	Passerotti Pier ( 1.0)
2 - 13	De Santis Aless ( 1.0)	Adami Antonio ( 1.0)
14 - 3	Novosel Lovro ( 1.0)	Medancic Rikard ( 1.0)
4 - 28	Garonzi Martino ( 1.0)	Arlavi Sara ( 1.0)
31 - 5	Moric Ivan ( 1.0)	Geisshirt Marco ( 1.0)
6 - 32	Barucco Mattia ( 1.0)	Calabrese Mauri ( 1.0)
33 - 7	Ruk Robert ( 1.0)	Bini Massimo ( 1.0)
8 - 26	Jung Florian ( 0.5)	Antolini Aldo ( 0.5)
10 - 9	Campanella Giov ( 0.5)	Di Paolo Marco ( 0.5)
25 - 24	Kofler Albin Er ( 0.5)	Arlavi Robert ( 0.5)
12 - 20	Schaberg Wolfga ( 0.0)	Menon Michele ( 0.0)
27 - 18	Degaudenz Fabio ( 0.0)	Zerba Fabio ( 0.0)
19 - 30	Klingler Lutz ( 0.0)	De Stefani Ales ( 0.0)
29 - 0	Bertola Stefano ( 0.0)	BYE : 1 PAB

use CTRL+'up' and CTRL+'down' to move the pair up or down

Sort pairing when done

Unpaired Players

White  x -  x Black

N	Name	Pts	Rtg	Col	C
21	Cedoni Gabriele	0	1631	W	
15	Bortolotti Silvano	0	1705	B	
16	Briata Nicolo`	0	1691	W	

Remaining players  Pairs added

**Withdrawn players**

N	Name	Pts	Status
17	Galoic David	0	0 point
23	Urbani Gabriel	0	0 point
22	Margoni Casimiro	0	0 point

When entry is finished, the user should click **Done**. Vega will correctly assign the colors (except in the first round) and return to the **Round Manager** page, waiting for a command.

### 2.11.2 Export Data

The **File** → **Export** function is useful when the user wants to extract the personal data of the players to be used in other tournaments. There are three possibilities: **Export** → **All Players**, **Export** → **Tournament**, and **Export** → **Selected Player**.

**i) Export** → **All Players**: With this option, the data for every player is exported to a text file. The format of the file, called *Vega* format, is very simple and can be managed by any spreadsheet or text editor. It consists of a first row with the name of the fields followed by the data for each player in subsequent rows separated by a “;”.

The maximum length of each field is the following:

- NAME: 30 characters;
- FEDERATION: 3 characters;
- BIRTHDAY: date in the format dd.mm.yy or ddmmyyyy (8 characters);
- G(ender): 1 character (m or f).
- TITLE: 3 characters;
- ID FIDE: 10 characters

- ELOFIDE: 4 digits;
- KFIDE; 2 digits
- ID NAT: 8 characters;
- ELONAT: 4 digits;
- KNAT: 2 digits;
- ORIGIN: 20 characters;
- INFO: 20 characters.

The players in this archive can be loaded later as described in section 2.11.3.

**ii)Export → Tournament.** This option is useful in tournaments with many sections. In this situation it is best to have one large tournament, then extract the data for each section, selecting the rating range for each of them (see below):

Export players in this  rating interval: Min  - Max

The user can select players by their national rating, FIDE rating, or both. In any case, each section should be exported to its own directory (folder) -do not mix the sections in the same directory. The exported players are not removed from the current large tournament.

Finally, using the Split by Origin button, it is possible to create many tournaments starting from a single file of participants. The separation of players in the various tournaments occurs based on the Origin field.

### 2.11.3 Importing players from a text file database

Vega can import players from any formatted text database by using the database tabbed pages in the lower part of the window. The user can define up to three different databases and work with them simultaneously.



The wanted database is chosen with the option **Set DB**.

Vega offers the option to choose from a list of pre-defined databases, or a custom database either of a format with fixed-length fields or of a generic CSV (Comma Separated Variable, i.e. the field delimiter is “;”) type format.

The pre-defined databases do not need a data filter (it is automatically loaded). However, the custom databases require a filter to inform Vega which fields to import and where they are.

The user can retrieve players from different FIDE databases in text format. The correspondence among databases and the rating being retrieved in each DB is shown in the next picture.

The screenshot shows the International Chess Federation website's download page for August 2020 FRL. The page lists several download options:

- Combined list STD, BLZ, RPD:
  - TXT format (28 Aug 2020, Sz: 21.21 MB)
  - XML format (28 Aug 2020, Sz: 23.89 MB)
- LEGACY format (not rated included) STD, RPD, BLZ combined:
  - TXT format (28 Aug 2020, Sz: 21.16 MB)
  - XML format (28 Aug 2020, Sz: 23.56 MB)
- STANDARD:
  - TXT format (28 Aug 2020, Sz: 7.93 MB)
  - XML format (28 Aug 2020, Sz: 8.14 MB)
- RAPID:
  - TXT format (28 Aug 2020, Sz: 4.29 MB)
  - XML format (28 Aug 2020, Sz: 4.59 MB)
- BLITZ:
  - TXT format (28 Aug 2020, Sz: 3.15 MB)
  - XML format (28 Aug 2020, Sz: 3.39 MB)

Below the website screenshot, a software interface shows a list of databases to import from. The 'archive FIDE' database is selected, and a sub-menu is open showing options for 'Standard - TXT file', 'Rapid - TXT file', 'Blitz - TXT file', and 'Standard - full list with unrated - TXT file'. Red arrows indicate the flow from the website's download options to the software interface.

The user must enter a string of **at least 6 characters long** to activate the search. If the user enters the string **\*\*\*\*\*** all the players in the database are shown (for the FIDE database it is necessary to select a country code to limit the output). The user should ensure there is enough memory in the computer to avoid a program crash that might be caused by loading a huge database.

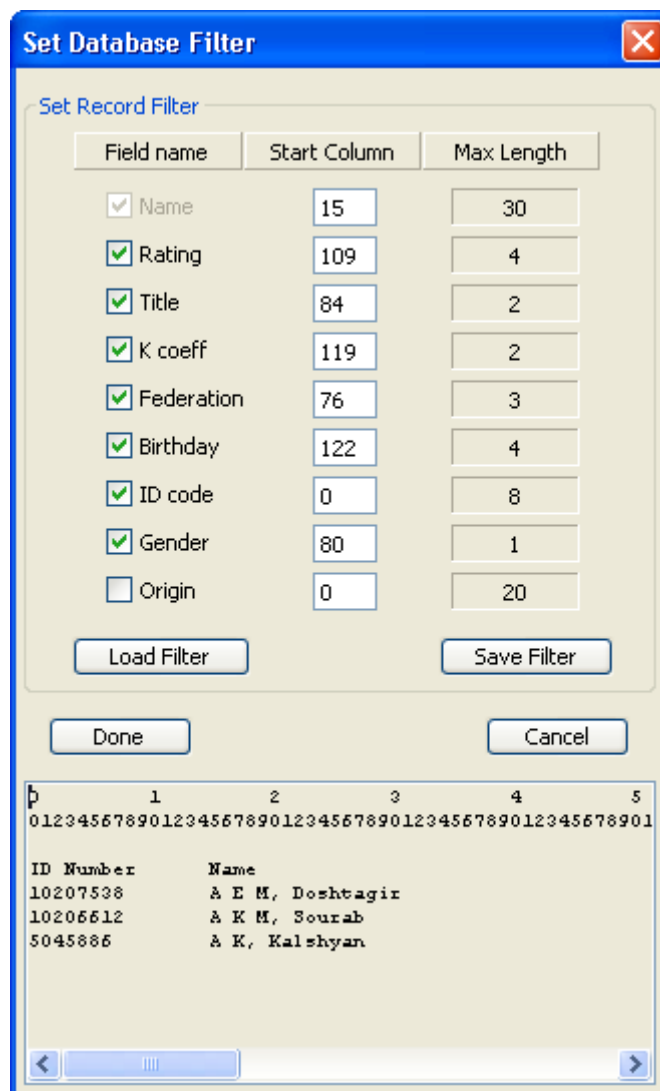
Vega will show all the players matching the entered string (the search is not case sensitive). To add a player to the tournament, the user must:

- Select a player.
- Double click the selected player or press the ENTER key.
- Select a range of players: Left click of the first player, hold down SHIFT and left click on the last and then press **Add Selected** to import all players at once. The user can also select multiple players by holding down the key CTRL and left-clicking on each player.

A database of type **National Fixed Length** has national rating and ID data instead of the FIDE

ones.

For this and others custom databases the user must set a filter by pressing the **Set Filter** button. In the case the database has fields with fixed length the following window will appear:



The previous picture shows an example in which the user wants to import the fields Name, Rating, Title, Country, Birthday, ID code and Gender (the corresponding check boxes are pressed). Then for each field the user inserts the column from which begin to read that field (the first column of the record start from 0). The length of each field is fixed by and specified in Max Length.

The selected filter can be saved for reuse using **Save Filter** and the filter's filename should have a flt extension. It can be reloaded later with **Load Filter**.

The generic **CSV database** works with databases in which the fields are delimited by ';'. One needs to define a filter and indicate the fields to be imported. The first field has position 0 (zero). This type of database can be used to import from FIDE or national databases as well as custom-built databases.

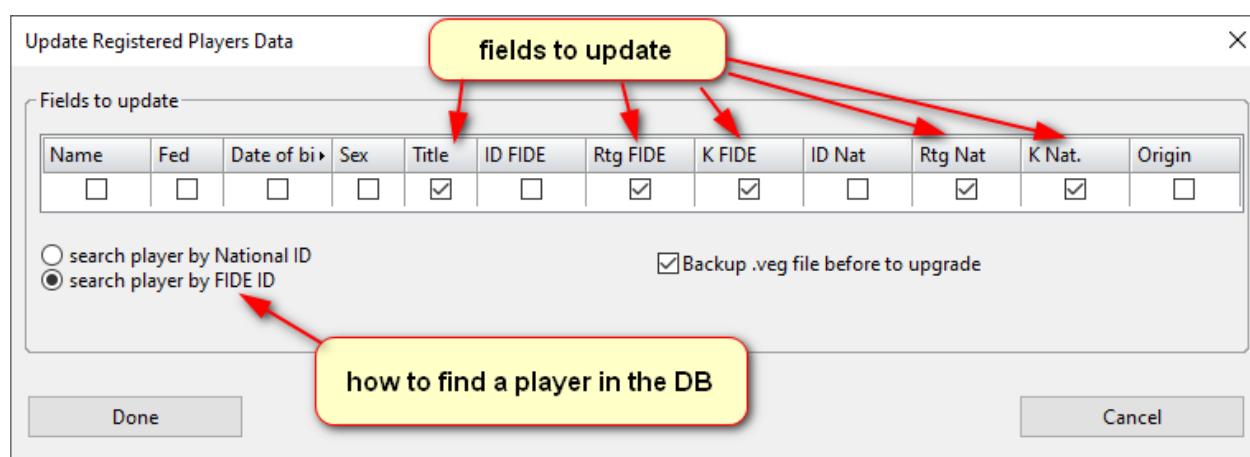
*Note: In English speaking countries CSV type databases are usually delimited by ',' instead of ';'. This default behavior can be altered on Windows machines by going to Control Panel → Region and Language Settings → Additional Settings → List Separator and changing the ',' to a*

‘;’. Programs such as Excel will then delimit fields with ‘;’ as required.

The database of type **Vega** do not need a filter and contain both FIDE and national data. Here is an example of such database

NAME; COUNTRY; BIRTHDAY; G; TITLE; IDFIDE; ELOFIDE; KFIDE; IDNAT; ELONAT; KNAT; ORIGIN  
Rossi Mario;BEL;1959;m; GM; 200930; 2587;10;0; 0; 0;Club64  
Bianchi Giorgio;ITA;2000;m; GM; 865834; 2565;10;0; 0; 0;Arrocco

The **Update** button is useful when the ratings have been changed and the arbiter needs to synchronize them with the newest value contained in the database. This task uses the player National or FIDE ID to look up the player in the database. The FIDE and VEGA databases permit to choose which fields to update in details



Others database permits a partial update of the data.

### 2.11.5 Pairing of late entrants (Swiss system only)

This is for players that did not communicate their participation in the tournament and arrive after the first round has started, when player registration cannot be reopened. Their registration proceeds as that of normal players with the exception that they cannot be deleted, only modified when necessary. Vega assigns consecutive IDs to each late entrant as they are entered.

If the pairing has been already done the late entrant has status set to unavailable for that round. Otherwise he is available and then paired for the next pairing.

Sometimes there are several late entrants and the arbiter may pair them manually against themselves. For example, we closed the registration with 58 players and generated the pairing for the first round. Then 6 late entrants arrive. Vega will assign them the IDs 59, 60, 61, 62, 63 and 64. Let's suppose the arbiter wants to pair them in this way:

59 60  
61 62  
63 64


To let Vega add these pairs press the **Modify Pairing** button. The window for manual pairing appears and the late entrants are listed in the panel of withdrawn players. So they should be made available with the option **Make available selected player**. At this point, the arbiter can add the new pairs listed above. This way the new pairs will appear in the normal pairing list.

**NOTE:** The 'Modify Pairing' button can be activated only for the current round (the pairing of the previous rounds cannot be modified).



### 2.11.6 How to add points to late entrants in previous rounds.

The user can award the late entrants with points (gained against the BYE) in the round in which they were absent. For example, if a player enters at round 3 and the user want to give him a ½ BYE draw in round 1:

1. Show the pairing of round 1;
2. click on the desired player.
3. press the button  and assign the ½ result.

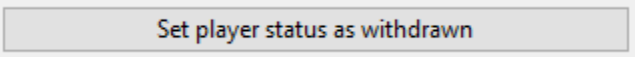
### 2.11.7 Special corrections after a round started (Swiss system only)

The following are cases when the pairing has been done and the tournament started.

a) *In the pair A vs B, player B doesn't show up. The arbiter assigns player A the 1F-0F result but then realizes that the missing player asked for a HPB (Half Point BYE), but he forgot to register his request.*

After realizing his mistake, the arbiter will give a FPB (Full Point BYE) to A and the requested HPB to B. To perform this task the arbiter needs:


- i) press Modify Pairing button;
- ii) unpair A and B using button Remove Pair;
- iii) Exclude them from current pairing using button



iv) Accept the new pairing;

v) Give each player the wanted result using button .

b) *After doing the automatic pairing, there is a PAB (Pairing Allocated BYE). A player who was given a HPB turns up after the round starts (before the forfeit time) and wants to be included in the round. The arbiter wants to pair him with the PAB.*

- i) In the round manager window use the modify unpaired result button, , to change him from HPB to a zero point bye.
- ii) Use Modify Pairing;
- iii) The player will now appear in the unavailable player window. Move him to the pairings window, unpair the pairing allocated bye and pair them.

### 2.11.8 Improving colors

Vega automatically assigns the correct color to each player<sup>1</sup>. However in some cases the arbiter might decide to assign them manually to refine the pairing, exchanging colors. Press the **Improve colors** button in the **Round Manager** page.

A new window will appear (see below) showing the details of the pairs in the current round. The user should pay attention to the colored squares because their colors have special meaning. In fact the duecolor white is indicated by a white square, the duecolor black is indicated by black square. A blue square appears for players that have no duecolor, for example at round 2, after a forfeit game.

---

<sup>1</sup> If using the USCF Swiss system, Vega will, after the so called *natural pairing* (upper half vs bottom half), improve the color distribution using the “Look Ahead method” described in the *USCF Official Rules - 5<sup>th</sup> edition*. See Appendix G for further details.

Inside the square there is a smaller square that is red if the player has a fixed duecolor, or green if the player can change their duecolor.



To improve the colors, the user should avoid, or at least minimise, the number of pairs in which both players have the same duecolors. To this end he should exchange those players by using transposition (exchange between players in the same column) or interchanges (exchange between players in different columns). To exchange two players the user should press the N-buttons of the selected players. Their IDs will appear in right hand side of the window. Just below this appears the rating difference involved in the exchange.

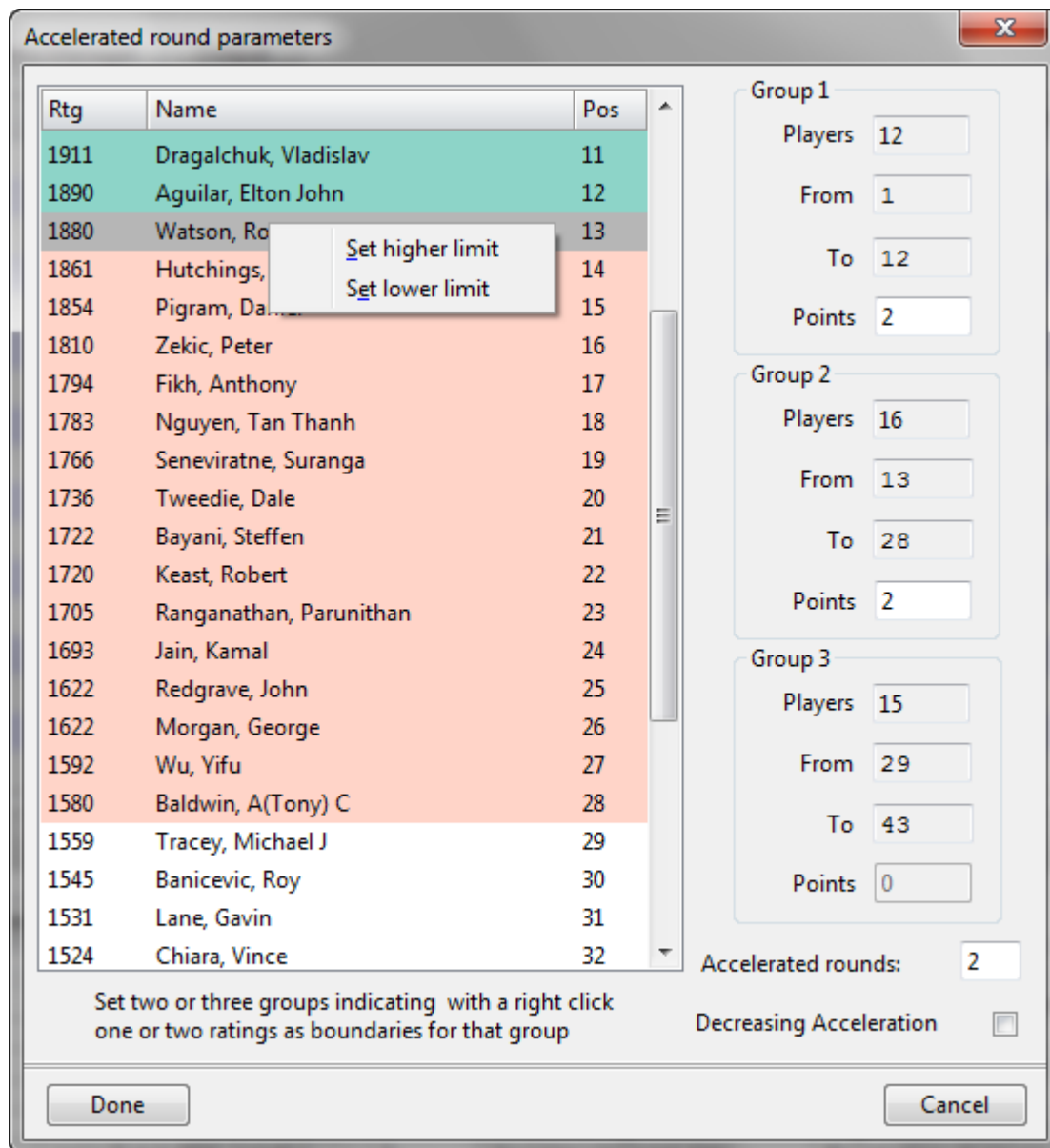
With the button **Exchange Players** the user can exchange the players. Vega will inform the user about the legality of the proposed exchange. If the user needs only to know if the two selected players are compatible they should press the button **Verify Pair**.

To accept the new pairing the user should press **Done** otherwise press **Cancel** to abandon all the changes.

***NOTE:** Some expert USCF TDs prefer to improve the colors themselves after natural pairing. Vega saves the natural pairing at round N in a file named natpairN.man. This pairing can first be loaded with the option "Modify Pairing" and then improved using the "Improve colors" option.*

## 2.11.9 Accelerated rounds

This section regards the custom accelerated system (the FIDE Baku system id handed automatically by Vega). The option **Extra** → **Set Groups for accelerated rounds** allows the definition of up to three groups of players. The user can choose the boundary of the groups, in terms of rating, by using the context menu (right click on the mouse). See picture below:



The right-hand side of the window shows the details of each group after the limits have been chosen.

Acceleration works by adding a fictitious number of points to each player's score based on which group they are in. When it comes to pairing, the groups are separated by virtue of the fact that the players are, at least initially, on a different number of points. The user should set the fictitious points for each group and the number of accelerated rounds after which the fictitious points are removed. Please note that the total score of each player showed in the pairing list is the sum real score + fictitious points.

It is possible to run the tournament using a system of acceleration that allows the groups to merge

more progressively based on the score of the players. For higher scoring players, the acceleration is increased by half-points, effectively decreasing the acceleration difference between them and those in higher groups (see Appendix Q). This variant (invented in France) can be activated by clicking the “Decreasing Acceleration” checkbox.

## 2.12 The “Publish online” Menu

Vega can generate a full web site of tournament in the folder `www<TournamentFolder>`. The files are in php format and for security reason they are visible only when moved to the Organizer site (in case he accepts the term of the license). The transfer must be done with the ftp client provided by Vega. Moreover, in the `www<TournamentFolder>` directory, Vega generates a pgn template (skeleton) file for each round.

**NOTE:** *The user must place the completed pgn file in a different directory to prevent Vega overwriting it!*

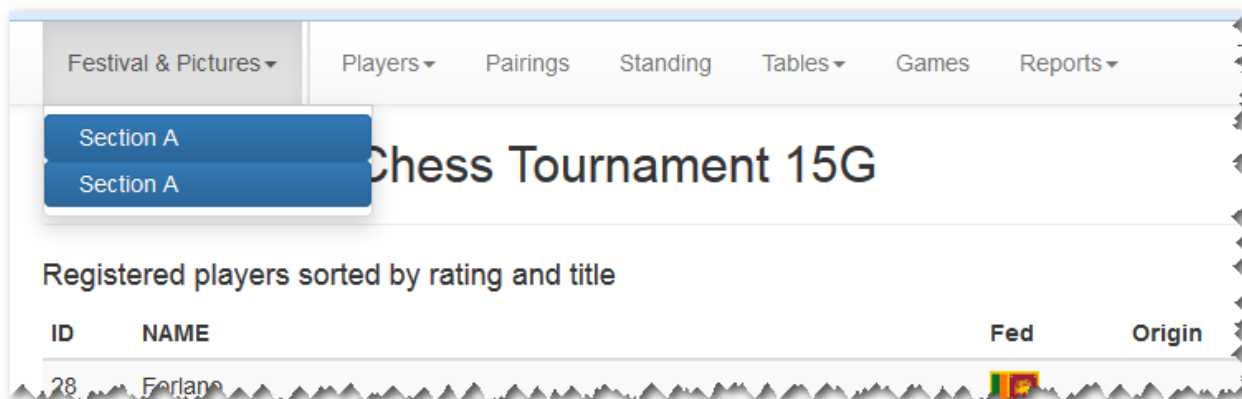
The user can tune the site using **Publish online / WWW Settings**.

The Enable Site Upload button can prevent anyone other than the tournament owner from uploading the tournament via ftp.

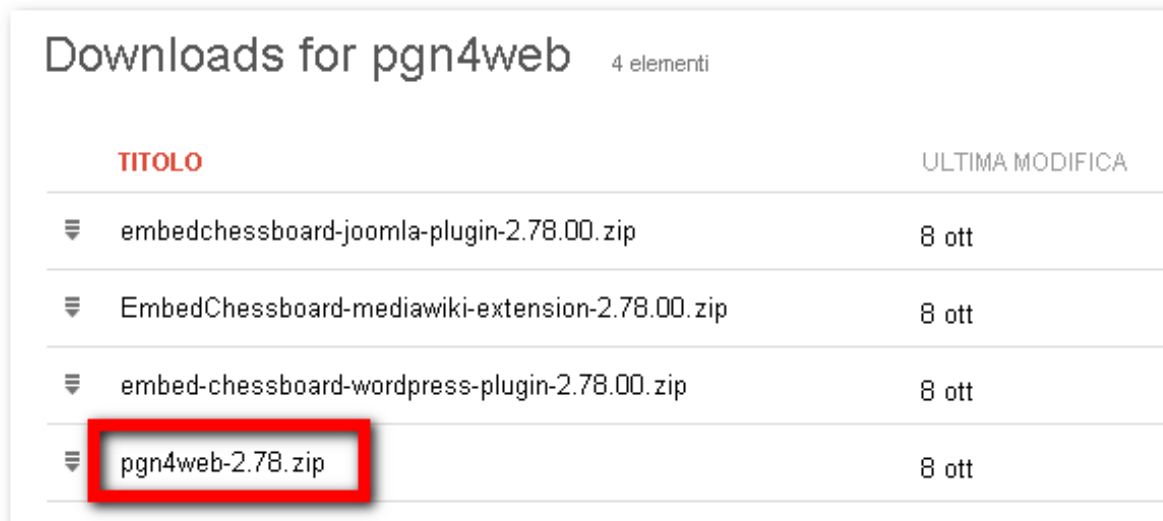
**Link pgn file game:** if checked, the pgn game files are available for download;

**Add rating report FIDE, Add rating report Nat:** if checked, an html page is created with the rating (Elo) report for to FIDE or the National federation (the latter currently mostly oriented toward the Italian federation);

**Use country flag:** if checked, a country flag will appear in place of the country name.



**Pgn viewer:** it is possible to install a pgn viewer able to read the pgn games generated by Vega. So far it has been tested the freeware viewer **pgn4web** (<http://pgn4web.casaschi.net/>) Download the latest version of pgn4web (see next picture) and unzip in a directory of your computer. Copy this entire directory on to the server. Let's call it **pgn4web/** in the root directory of the server.



Copy the files [vega.html](#) and [vega.css](#) from the directory [pgnviewer](#) (inside the Vega installation directory) in the directory **pgn4web/**. Take note of the server directory in which **pgn4web/** is and put it on the field **pgn viewer** in the setting window.

In the field **relative path games** insert the path relative to your root directory to the one containing the pgn file of your games with name <TournamentFolder>X.pgn, where X is the round. The viewer is now installed and nothing more should be done in the directory containing pgn4web.

While you observe a game, a left mouse click on square E8 opens a popup window with a board set

to the current position. You can move pieces by left click of the starting and arrival square. The enabled browser, e.g. Chrome, will even show the evaluation of a chess engine.

***NOTE:** The pgn files should be in a dedicated folder to prevent Vega to overwrite them. Their transfer must be done with an appropriate ftp program to the desired directory.*

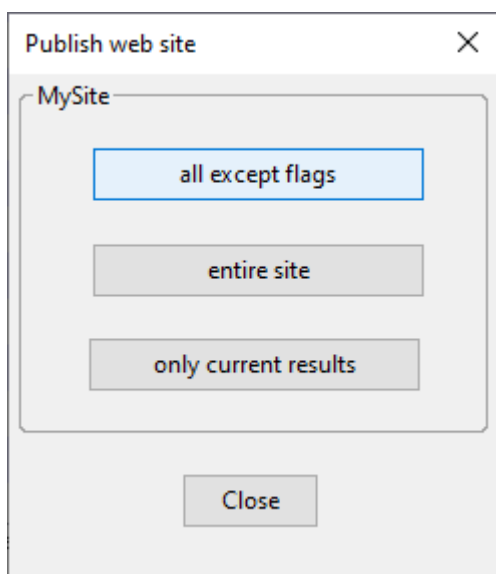
In the box **External links** the user may add the links to external pages of the site, or other sections of the same event. The link and its alias should be in the same row separated by ‘;’.

The box **ftp site parameters** should be filled with the usual parameters to access the site in case the user want to use the embedded ftp client. The field **folder** will contain the `www<TournamentFolder>` generate by Vega and should be already present on the server.

The user can select three different styles to display the site. He/she can modify the correspondent CSS placed in the installation folder.

The button **Synchronize local site** permits creation of the web content in case one or more files are missing or damaged.

**Publish online / Publish WWW.** It permits to the transfer of the www folder to the specified above. A window prompts the user with new actions:



**entire site:** publish the whole content of the local web site. This option should be used at the very beginning, for example after the pairing of the first round.

**all except flags:** this option save times because does not transfer the flags on the server. The player’s flag does not change during the tournament and this action should be used regularly.

**only current results:** sometimes the arbiter needs to quickly publish only the partial results got at that moment. This option transfers only the file containing the results of the current round.

### 3. VegaResult server

VegaResult, [www.vegaresult.com](http://www.vegaresult.com), is a site for publishing chess tournaments worldwide powered by Vega and coded by its author. It uses a modern technology and it is optimized for mobile device. The service offered is free of charge.

The site can be used by three different kinds of users:

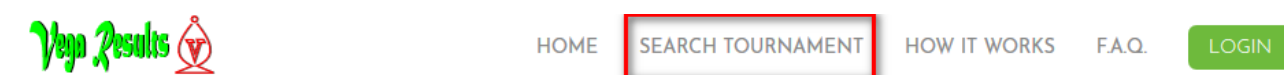
**casual visitor:** she/he is interested in consulting the results of a given tournament. This kind of user do not need to register.

**chess player:** she/he is interested in searching tournaments and is ready to join some of these tournaments. This kind of user do not need to register.

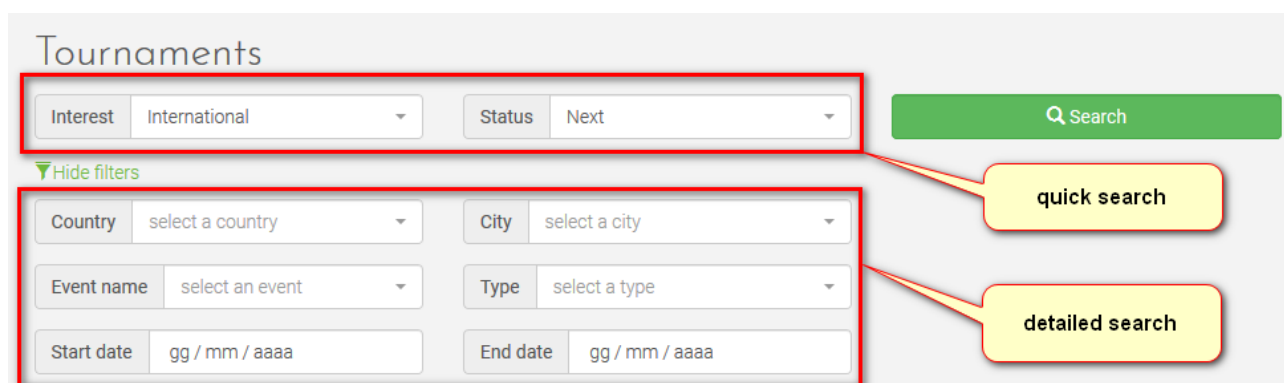
**arbiter/organizer:** she/he needs to register to Vegaresult site and then submit a valid Vega license file. Then she can create chess events that will be listed by the server and offered to the view of visitors and chess players as well.

#### 3.1 VegaResult for casual visitors and chess players

The visitors can search tournaments and show its content. A custom search can be done on the **Search Tournament** page:



A form permits to select the relevant data the user likes and then by pressing the button Search the search is performed. Here is the search mask:



The field **Interest** let the user to narrow its research. For example, the user interested in playing tournaments abroad where FIDE rating variation and FIDE norms are possible, will select International interest and avoid the showing of useless tournaments he cannot participate. From other side the user belonging to a given federation will select National interest if she/is looking for tournaments restricted to players of her federation. The Local interest regards tournament limited to chess clubs.

The field **Status** permits to choose among past, running and next tournaments.

The following picture shows some tournaments after a search has been performed.

Place/Date	Event	Section
23 Dec 2023 Torino		
27-30 Dec 2023 Padova	Torneo del Santo 2023	Open A Nat 7
27-30 Dec 2023 Padova	Torneo del Santo 2023	Open C Nat 5
27-30 Dec 2023 Padova	Torneo del Santo 2023	Open B Nat 7
30 Dec 2023 Los Navalucillos	V Torneo Navidad Los Navalucillos	V Torneo Navidad Los Navalucillos Loc 6
02-07 Jan 2024 Torino	53° Festival Città di Torino	Open C < 1600 Int 6

Click to go to the event page

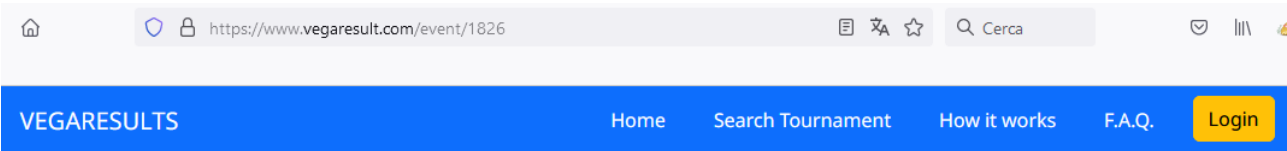
Click to go to the results of the section

The address of the event page is the following:

<https://www.vegareult.com/event/EVENTID>

This is the address one must publish about the event. The same page but translated in Italian is at

<https://www.vegareult.com/evit/EVENTID>



### Event

Name	53° Festival Città di Torino
City	Torino
Country	Italy
Start-End	02-07 Jan 2024
Interest	International
Info	<a href="#">Docs</a>
Web Site	<a href="#">Site</a>
Registration Expire	2024-01-01 22:00:00



### Sections

**Open A > 1999**  
Swiss Ind. Classic - 9 rounds  
Prize: 3710

[Results](#) [Register](#) [List](#)

**Open B < 2100**  
Swiss Ind. Classic - 6 rounds  
Prize: 930

[Results](#) [Register](#) [List](#)



To join a tournament the chessplayer needs to click the Register button.

The user is then redirect to the registration page. Here she can fill the form or display the already registered players. After filling the form and pressing the button **Register me!** A confirmation email is sent to the entered email address. It contains a link that needs to be validated and another one that can be used in case the user wants to withdraw from the tournament in future.

### 3.2 VegaResult for authenticated arbiters

The arbiter/organiser that wants to register to the tournament listed on the Vega-Result server needs to register to VegaResult. This is done with the menu item **Login**



The registration form asks for sensible data. The chess player is advised to insert **REAL** data. In particular the **First and Last name** field should be **identical** to the same of the FIDE database if present. Alternatively, the user not yet present in the FIDE database should insert the name as appear in his national database.

The email field is very important too. In fact the user may ask to receive by email a reset password link when necessary.

The password chosen should be at least 8 characters long. It is intended that the user choose it in a smart way and not share it with others. The site saves the password in an encrypted way and it is not known to the administrator site.

A registration form titled "Registration Page". It contains five input fields: "First Name\*", "Last Name", "Username\*", "Email\*", and "Password\*". Below the fields is a checkbox labeled "You agree with our Privacy Policy". At the bottom is a blue "Register" button.

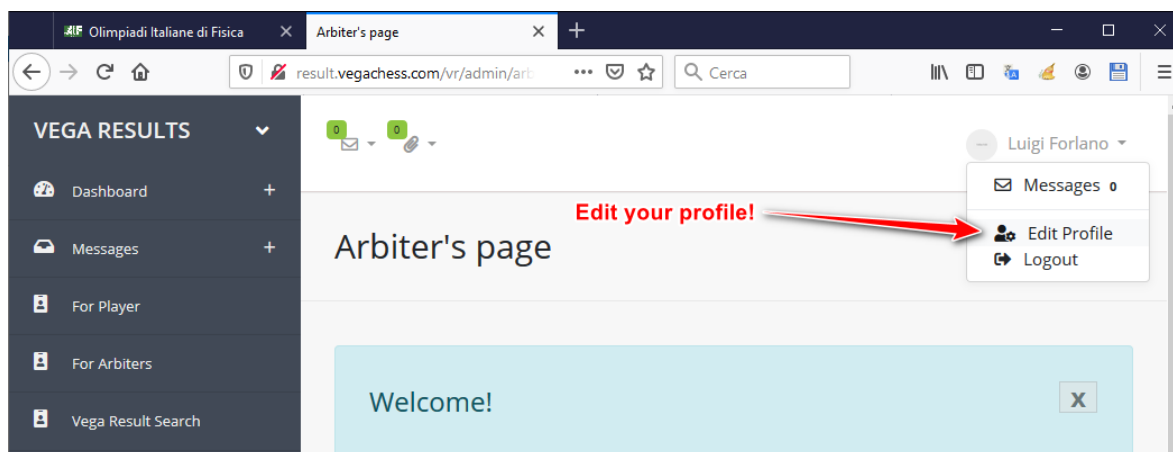
When all data are filled and the **Register** button is pressed a confirmation email is sent to the user.

Please allow few hours before the email is sent to the user. The user must answer within 24 hours clicking on the confirmation link.

After confirming the registration, the login is done by the menu item **Login**

HOME    SEARCH TOURNAMENT    HOW IT WORKS    F.A.Q.    **LOGIN**

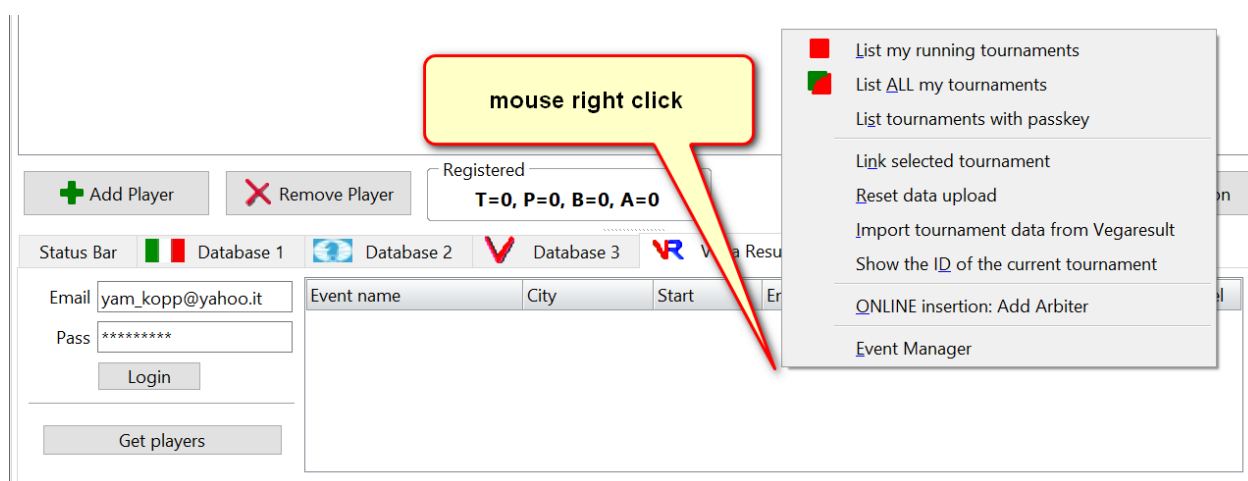
After the login is done the user is redirect to her account page.



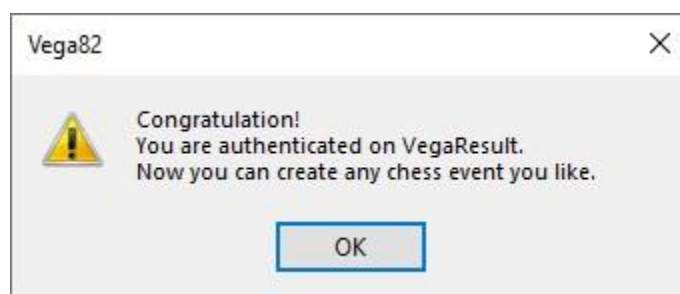
Here she can provide further identification data, i.e. Location, FIDE ID, National ID. This is done by pressing the button edit profile.

You are allowed to change the email address. The username cannot be changed.

The arbiter or organizer that own a valid Vega license must run the program Vega and in the tab page regarding VegaResult should insert the **email** and **password** of VegaResult and then press the login button to the left of VegaResult tab page



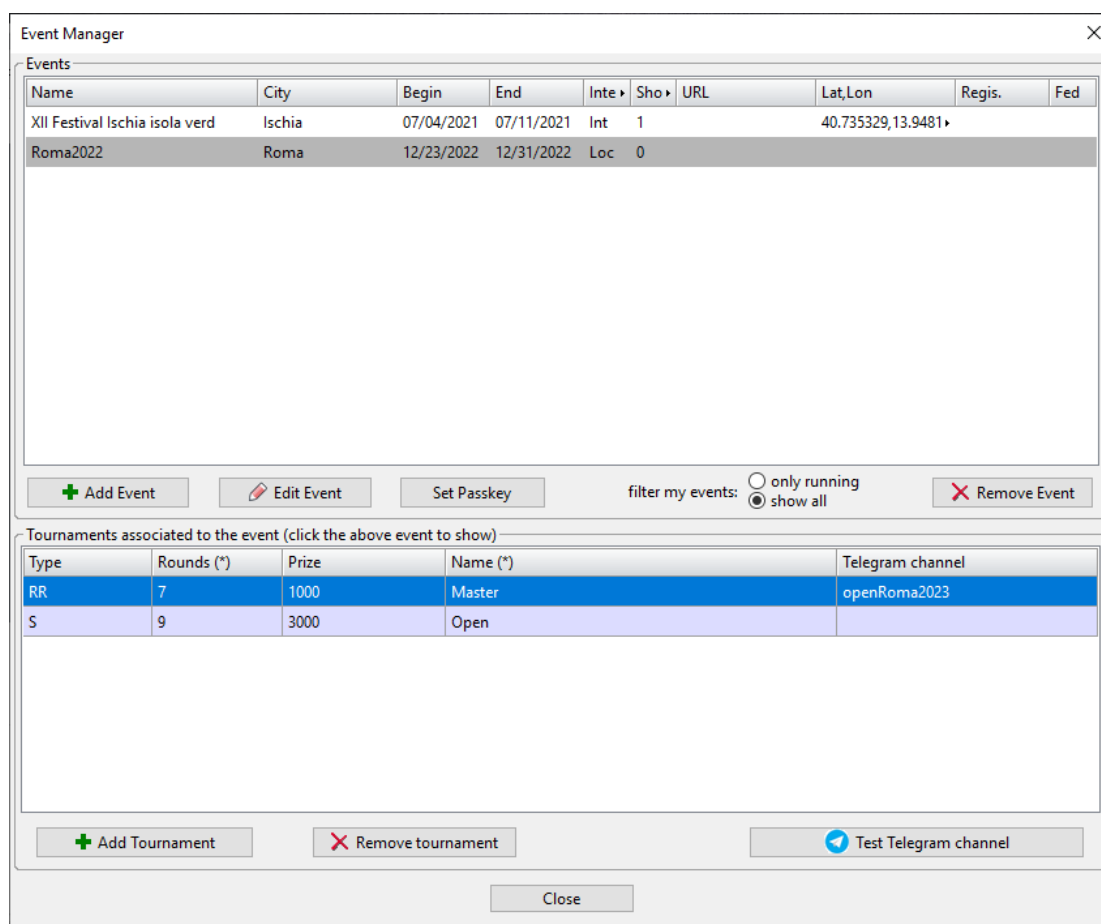
Vega will check your current license and in case of success a message will appear



### 3.3 Create event

The authenticated arbiter can create a chess event. A chess event consists of one or several sections (even called tournaments). A chess event must have at least one section.

To create an event the user must login as seen before and then right click with the mouse in the right panel. A popup menu appears. To create the event just select the item **Event Manager** with a left click. A new window will appear (see picture below). To create an event left click **Add Event**.



Then the user must fill the form that define the event:

The sign “\*” indicates mandatory fields. It is responsibility of the arbiter to enter sensible data. The field **Doc** permits to upload a file containing details of the event: contact detail, location, prize distribution, accommodation info, touristic info, etc...). This file should be in PDF format with size less or equal to 300 kByte. To not overcome the 300 kByte limit the user should use only text without useless images. When uploaded the file is renamed.

The user should indicate properly the **interest** or relevance of his event choosing among: 'International', 'National', 'Local'. **International**: event with at least a section/tournament opened to the participation of foreigner chess players. These events are valid for FIDE rating variations and International Norms as well. **National**: tournaments reserved to chess players of a given federations, for example like a national championship or championship of a limited area of a country. **Local**: Tournament reserved to players belonging to a given chess club or very restricted area.

**Improper selections are not tolerated and we reserve the right to ban the user responsible of sloppy insertion.**

The user can make not public his event acting on the **show event** checkbox. In this case the event will be not available for searching and will be not listed.

show event:

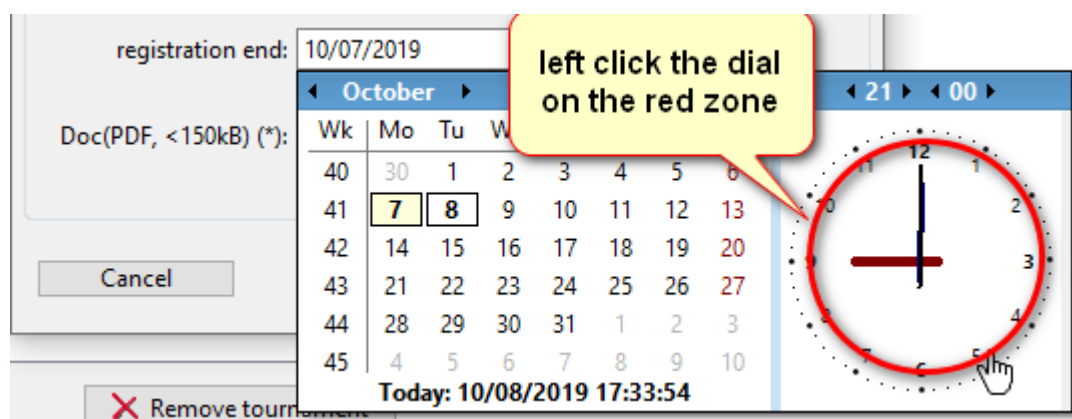
Public/visible/searchable event

show event:

Private/invisible event

The field **Url** is the address of the organizer site, if exists. The **Latlon** field refer to the Latitude and Longitude coordinate (separated by “,”) of the place event as gave, for example, by the site <https://www.latlong.net/> .

The field **Registration** permit to set the time and date limit for the online registration. To set properly the time the user must left click on the circular dial



When all fields are set to save the data on the server press the button **Done**.

Each event must have **at least one** section/tournament. To add sections/tournaments to the event the user must press the button **Add tournament**. As usual the field marked with (\*) are mandatory.

The **Type** field can be

- S: individual Swiss tournament;
- RR: individual round robin;

The field “Telegram channel” permit to add a service of instant messaging during the tournament. It is described in details here <https://www.vegachess.com/ns/telegram>

When the form is filled just press the ENTER key.

Tournaments associated to the event (click the above event to show)

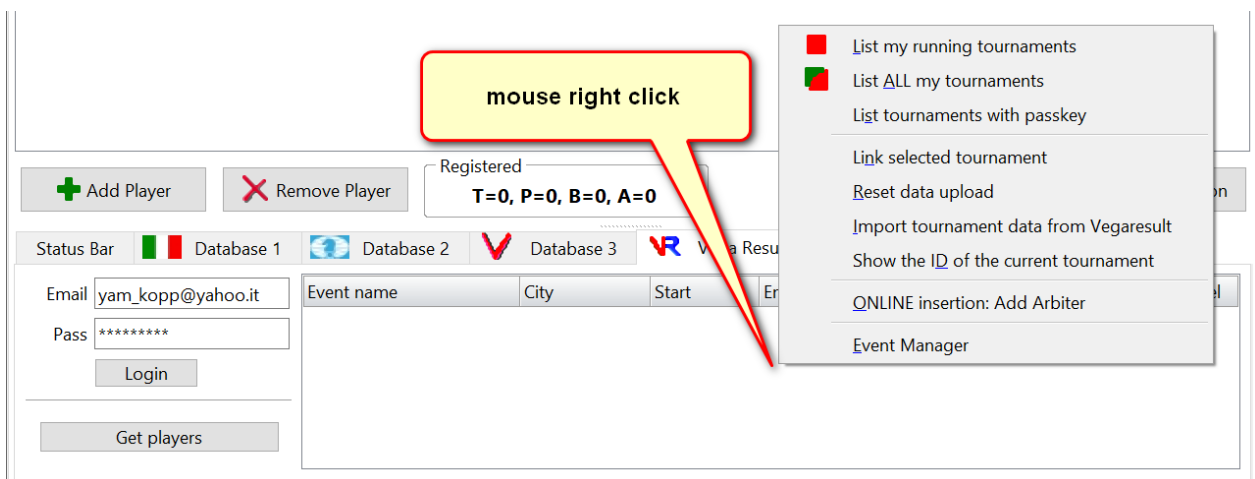
Type	Rounds (*)	Prize	Name (*)	Telegram channel
RR	7	1000	Master	openRoma2023
S	9	3000	Open	

The event can be associated to a passkey via the button **Set Passkey**. A passkey is a random password 32 characters long that can be set and then shared with other arbiters. Who has the passkey of our event can show it and publish in that area. See below for further detail.

It is possible to add a telegram channel how explained here <https://www.vegachess.com/ns/telegram> to notify your players during the tournament.

### 3.4 Connect the current tournament to VegaResult

When a tournament is opened or created in Vega a connection with the server VegaResult must be done. To this end the user inserts her username and password and press the button Login. Now the current tournament (the one opened in Vega) must be linked with that created previously on the server side. This operation is done only one time per each tournament. The mouse right click on the tournament area will show the popup menu we have already seen:



Here is the meaning of each item:

By the default Vega will show at login the running tournament (**List running tournament**). In case the user wants to show all tournaments, even the old ones, the option **List ALL tournaments** should be selected.

**List tournament with passkey** permits to show the tournament of another arbiter/organizer that gave us access to it. In order to do so he must give us a password of 32 characters long.

The **Link selected tournament** is the most important operation and should be the first to be done

before to begin to publish a tournament. This operation must be done only one time, although it can be done again in case of error. To do it just select the desired tournament listed on the panel and select **Link selected tournament**. In case of success a message will confirm it.

Vega transfer to VegaResult only new data or modified data neglecting data previously uploaded. However sometimes the user wants to force the transfer to VegaResult of the entire site. This is done pressing the button **Reset data upload** and then performing the upload.

When the arbiter deals with an event that has many tournaments, it is easy to assign by mistake to the opened tournament in Vega the ID of another tournament already uploaded. If this happen the data on the server are overwritten. So the user should act carefully and have a clear idea of what she is doing. To prevent such errors, the tournament panel (see picture below) will list the tournaments that have already been uploaded with a coloured background.



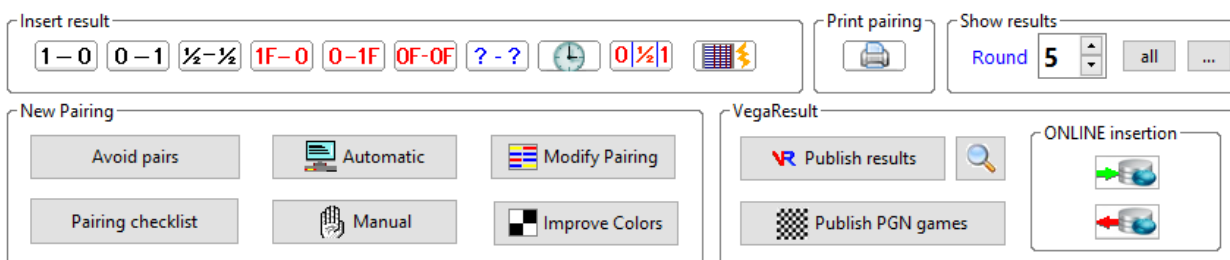
### 3.5 Download registered players

Vega can import all registered players from the server by left click on the **Get players** button. The downloaded players should be later treated with the usual database option to update their info (rating, birth date and so on).

The National ID is imported only if the event is played in the same country of the player. The players can be imported as far as the registration are not close in Vega.

### 3.6 Upload results to VegaResult

After the closure of the registration Vega can upload the tournament results to the server. This is done with the button **Publish to VR** in the bottom right side of the page **Round Manager**.



The button **Show Site** will open the browser and display the tournament at the url

<http://www.vegaresult.com/vega/index.php?id=X>

An equivalent url is the following

<http://www.vegaresult.com/vega/X>

### 3.7 Publishing games in PGN format

During the tournament, at each round, Vega saves the nometorneoX.pgn file containing the pairings for round X. In order to publish them, the user must comply with the following instructions:

- 1) Copy this file into the WWWtournamentname/pgn folder, **taking care not to rename them**;
- 2) With your favorite program, enter the moves for each game indicated in the relevant pgn file.

Once the pgn files have been created, they can be published with the **Publish PGN Games** button. The Games link will appear on the tournament page to view the matches of each round.

Games of round: 1 2 3 4 5



The image shows a chessboard on the left and a PGN game viewer on the right. The chessboard is a standard 8x8 grid with files a-h and ranks 1-8. The pieces are arranged as follows: White King on e5, White Queen on d5, White Rook on c5, White Bishop on f5, White Knight on g5, White Pawn on a5, White Pawn on b5, White Pawn on c5, White Pawn on d5, White Pawn on e5, White Pawn on f5, White Pawn on g5, White Pawn on h5. Black King on e7, Black Queen on d7, Black Rook on c7, Black Bishop on f7, Black Knight on g7, Black Pawn on a7, Black Pawn on b7, Black Pawn on c7, Black Pawn on d7, Black Pawn on e7, Black Pawn on f7, Black Pawn on g7, Black Pawn on h7. The PGN viewer shows the game: 1. Di Mauro, Alessandra vs Capitelli, Paolo 1/2-1/2. The moves listed are: 1.e4 c5 2.♘f3 e6 3.d4 cxd4 4.♗xd4 ♟f6 5.♗c3 ♟c6 6.a3 d5 7.exd5 ♟xd5 8.♗xc6 bxc6 9.♗d2 ♗e7 10.♗d3 O-O 11.O-O ♗f6 12.♗a4 ♗b8 13.♗b1 ♗e8 14.♗e2 g6 15.c4 ♗b6 16.♗c5 ♗d7 17.♗xd7 ♗xd7 18.♗e3 ♗a6 19.♗fd1 ♗c7 20.b4 ♗bd8 21.h3 ♗d7 22.♗c2 ♗ed8 23.♗e2 ♗d4 24.♗xd4 ♗xd4 25.♗xd4 ♗xd4 26.♗d1 ♗e5 27.♗xd4 ♗xd4 28.♗d3 ♗e5 29.♗d8+ ♗g7 30.♗d3 h6 31.♗f3 ♗b7 32.♗d3 c5 33.b5 ♗a1+ 34.♗h2 ♗e5+ 35.♗g1 h5 36.♗f3 ♗xf3 37.♗xf3 ♗a1+ 38.♗h2 ♗d4 39.♗b7 ♗xc4 40.♗xa7 ♗xb5 41.a4 ♗b4 42.a5 ♗f4+ 43.♗g1 c4 44.♗c5 ♗c1+ 45.♗h2 c3 46.a6 c2 47.a7 ♗f4+ 48.g3 c1=♗ 49.♗xc1 ♗xc1 50.a8=♗ h4 51.♗f3 hxg3+ 52.♗xg3 ♗c5 53.♗f3 ♗e5+ 54.♗g1 f5 55.♗b7+ ♗h6 56.♗g2 g5 57.♗f3 ♗d5 58.♗c3 e5 59.♗c8 e4 60.♗h8+ ♗g6 61.♗e8+ ♗f7 62.♗c6+ ♗f6 63.♗e8+ ♗h6 64.♗g2 ♗g7 65.♗d7+ ♗f7 66.♗d4+ ♗g6 67.♗e5 ♗d7 68.♗h2 ♗c6 69.♗h8 ♗d6+ 70.♗g2 f4 71.♗g8+ ♗f5 72.♗h7+ ♗g6 73.♗d7+ ♗e6 74.♗h7+ ♗e5 75.♗g7+ ♗f6 76.♗c7+ ♗d4 77.♗a7+ ♗d3 78.♗a3+ ♗c3 79.♗d6+ ♗c2 80.♗g6 f3+



## 4. Vega for Team Tournament: VegaTeam

Most of the features described in section 2 are also valid for the team version. However, there are a number of differences that are covered in this section.

The screenshot displays the VegaTeam 6 beta 4 interface. The main window is titled "CAMPIONATO SERIE MASTER 2010 - VegaTeam 6 beta 4". The menu bar includes "File", "Extras", "Report", and "Help". The interface has three tabs: "Players Archive", "Round Manager", and "Output".

The "Edit Team" section is active, showing the following information:

- Team Name: OBIETTIVO RISARCIMENTO PD
- Origin: Padova
- Federation: Italiana
- Rating: 2567
- Status:

Below this is a table of players:

Player name	Fed	Birthday	G	Title	ID FIDE	Rtg FIDE	ID Nat	Rtg Nat	K
Caruana Fabiano	ITA	1992	m	GM	2020009	2680	0	2680	0
Georgiev Kiril	BUL	1965	m	GM	2900017	2669	0	2669	0
Bellini Fabio	ITA	1969	m	IM	800252	2493	0	2493	0
Collutis Duilio	ITA	1976	m	IM	805475	2426	0	2426	0
Arlandi Ennio	ITA	1966	m	IM	800104	2424	0	2424	0
Valsecchi Alessio	ITA	1992	m	FM	818860	2360	0	2360	0
	0	0	m	--	0	0	0	0	0

Below the player table is a toolbar with buttons: "Add NEW Team", "Clear all fields", "Remove Player", "Remove Team", and "Close Registration".

Below the toolbar is a table of teams:

ID	Team Name	Origin	Fed	Rating	Status
1	OBIETTIVO RISARCIMENTO PD	Padova	Italiana	2567	1
2	SCAVOLINI PUNTO ESCLAMATI	Pesaro	Italiana	2533	1
3	CHIETI	Chieti	Italiana	2530	1
4	VIMAR SCACCHI MAROSTICA	Marostica	Italiana	2520	1
5	A.S.A ANCONA	Ancona	Italiana	2405	1
6	ACCAD. SCACCH. LE 2 TORRI	Bologna	Italiana	2390	1

At the bottom, there is a table showing tournament details:

Time	Tourname	System	Round	Total, Avail, Bye	Action	Status
11/13/2011 16:2 ▶	...	...	0	0, 0, 0	Hello!	Open or Create a tournament!
11/13/2011 16:2 ▶	CAMPION▶	swiss vec▶	0	14, 14, 0	Opened tournament: CAMPION▶	Waiting new pairing

### 4.1 Creating a New Tournament

To create a new tournament, proceed as with Vega with **File** → **New Tournament** in the menu bar. A new form will prompt the user to enter essential information to define the tournament. In particular there are two new fields:

**Boards** is the number (max 10) of players that will sit at the tables to play.

**Max Bo.** is the total number of members in a team, i.e. it is Boards plus the reserves. The max value is 10.

**Pairing score** is the principal score used to rank the teams and to realize the pairing. The user has two possibilities:

- **Sum Player Results.** All points scored by individual players (0 for losses,  $\frac{1}{2}$  for draw, and 1 for wins) are accumulated.
- **Match Points.** Points 0, 1, or 2 are assigned to the team after each match. For example, if team A faces team B with 6 players with result of  $+3 = 2 - 1$ , then team A gets 2 points and team B gets zero points.



As far as the **Tie-break** is concerned, the user should be aware that Buchholz and Sonneborn-Berger systems are calculated over the **pairing score** selected from the drop-down above. Moreover, the *Av. Rat. Opp.* is the Average Rating Opponent and *Weighted Boards*, is a sum of individual results where each board is weighted by the following factors:

- 1 board = 1.9
- 2 board = 1.7
- 3 board = 1.5
- 4 board = 1.3
- 5 board = 1.1
- 6 board = 0.9
- 7 board = 0.7
- 8 board = 0.5
- 9 board = 0.3
- 10 board = 0.1

The Koya system is calculated with respect to the match points.

After creating a tournament, the user must provide information regarding teams and their composition in the **Edit Team** panel. The entry of a team is performed by filling in the fields **Team Name**, **Origin**, **Federation**, **Status** and clicking on **Add NEW Team**. The data is moved down in the team list and the overall rating of the team is assigned automatically as described below. Team

Name is the only mandatory field required to add a team.

The status flag may be  in case of team available for the next round or  in case of a team not participating to the next round.

To add a player, double click on a row and insert the data as usual. Each added team is assigned a rating calculated as the average of its first **Boards** players with the greatest rating (the position of a player at the table does not affect the average rating). For example, in a team of six players with rating: 2600, 2600, 2300, 2300, 2600, 2600, and **Boards**= 4, the average rating of the team is 2600.

The players can be sorted in different ways by simply clicking on the header of a given column.

To change a team that has already been added, the user should:

1. Select the team in the Team list.
2. Modify its data and eventually modify the player list.
3. Click on **Save Change** button.

To delete a team the user should:

1. Select the team in the Team list;
2. Click on **Remove Team**.

#### ***4.2 Closing the Registration***

When the user has finished entering the teams, they must click on the **Close Registration** button to start the tournament. A unique pairing number is assigned to each team. Each player is assigned a unique number using the formula:

$N\_player = (N\_team - 1) \times 10 + B$ , where B run from 1 to 10

Thus the players, for example, of team with N=7 will numbered as 71, 72, 73, ..... When the registration is finished it is not possible to delete a team or add a new one. Instead the user can only modify the present team.

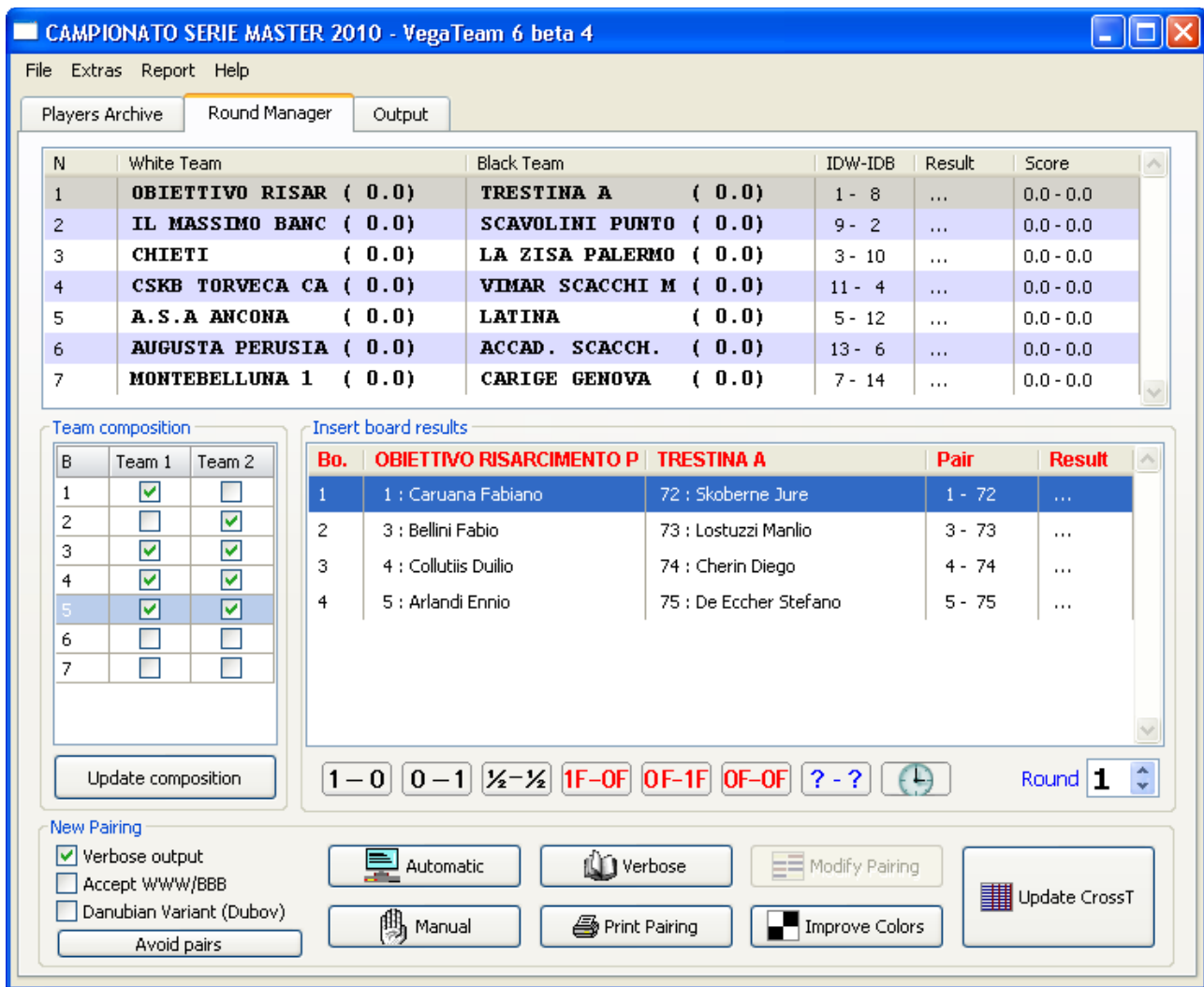
#### ***4.3 New Pairing***

The pairing is performed in the usual manner.

#### ***4.4 Entering the Results***

The window is split in two parts. The top part shows the pairing amongst teams, while the bottom part shows the pairing amongst the corresponding players. The result should be entered into the **Insert board results** panel, while in the left panel **Team** composition the user can select the players participating in the next match.

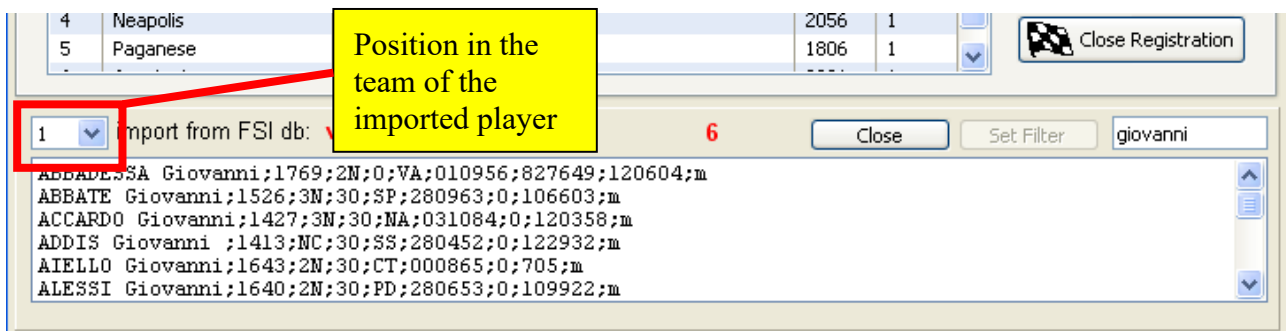
VegaTeam will automatically move on to the next match when all players have got their results.



**NOTE: In case a round contains an odd number of teams one of them will be paired with the BYE and the arbiter must assign appropriately each board result. In order to assign 2 match points against the BYE the individual results must be forfeited result.**

#### 4.5 Importing Players from a Formatted Database

VegaTeam can import players from any formatted textual database by using the option **File** → **Connect Database**, just as Vega does.



#### 4.6 Extra/Add Team Preference Menu Item

This option can be used to perform automatic task during the insertion of a team. The user will be asked to check two boxes:



**Sort players by rating:** if checked the players are sorted with the highest ranked player at the top of the list. If unchecked the list remain as that made by the user.

**Fill with fictitious players:** if checked the rows left empty in the player list will be filled with dummy names. For example, if the team name is Thunder the players are named Thunder\_1, Thunder\_2, .... This option is useful in case the user wants quickly to run the tournament and only later wants to insert the real name of each player.

## Appendix A: Frequently Asked Questions (FAQs)

### 1. May I have the source code?

No, sorry... maybe in future.

### 2. Can I exchange the colours of a pair?

Yes, of course. Just double click on the table that shows the pairing.

### 3. Why is the Linux version freeware?

I'm very indebted with the Linux community and this is a way to give something back. From other side Vega born under Linux. The cost of maintaining the code and provide the upgrades are covered by the Windows version most used by professional arbiter.

### 4. What I have to do if my tournament is made by many sections. It seems Vega can administer only one section.

Not at all! You can administer simultaneously how many sections you want... of course depending upon the memory capability of your computer. Vega can manage one section but you can run many sessions of the program at the same time and simply switch among them by using the Set Festival option.

### 5. I am not a registered user and I need your help. Can you answer me?

Yes, of course! Usually I answer within 12 hours from your email. If there is a delay it is because I am abroad or very busy. If you do not get an answer within few days, it is likely I have not received your email so please send it again.

### 6. Is there a software house behind Vega?

No. The author is a chess player, FIDE arbiter and organizer that knows very well what an arbiter really needs. The author is the first user of the program. For this reason the program is very cheap and there is no upgrade cost while it remains freeware for Linux.

However, if a TD needs a feature not present in the current version just let me know. I'll consider implementing it for free.

### 7. I would like to print/save the file players.html with the players sorted by national rating.

Click on the header column to be sorted in the player archive page then use the option **Print Players**.

### 8. Our organization is a no profit. Can we have a windows version for free to run our tournaments?

For school/no profit that cannot afford the cost of registration I am offering the Educational license at half price. It is identical to the windows one. Moreover, Linux can be installed on a cheap 8 GigaByte USB pen drive.

### 8. Vega does not recognize the draw. All the points made by draw are not reported in the output.

This may appear in some very old Linux distributions. It happens when the decimal separator is the “,”. Please modify your environment and set instead the “.”.

### 9. I'm not a registered user. Can I run the freeware Linux version under Windows/Mac OS by using an emulator/virtual machine?

No, it is not permitted.

**10. How do I use the registration code? I do not see where I can enter the serial code.**

Just save the registration file I sent you by email in the same directory of the executable (where the program has been installed) and run the program. That's all.

**11. Can I run the registered version on both my desktop and notebook?**

Yes of course. You can run it on any number of computers. It is only required that in a real tournament with more than 30 players the organizer or at least one of the arbiters has a valid registration.

**12. Do you accept suggestions? I need this feature...**

Yes, please let me know your request. I will implement it for free if it is of general use. I want to filter all requests to maintain the program easy to use and very intuitive. If you like programs with million options and not intuitive interface there are around many good software for you.

**13. If I am running a tournament (60 participants), but with 2 categories (30 participants in each), is it possible to use the Windows version for free as it targets 2 separate categories and the number of participants is 30 and below per category?**

No, it is not permitted.

**14. Which Swiss system should I use for my tournament?**

Here is short table showing the main features of the systems implemented in Vega:

System	Feature	Preferable if	To avoid if
<b>Dubov</b>	It tries to treat each player in the same way: In the same score group all players should have the same performance. If all are treated in the same way the stronger player should make more points to win the tournament. The player that plays on the first board it is not automatically favored in case of tie-break	There are many rounds (greater than 7) and the rating of the players differ by less than 200-300 Elo points.	The rounds are less than 8 or the rating of players differ by more than 200-300 Elo points.
<b>Dutch</b>	The priority is the rating. The player with a higher rating will face stronger opponents and in the case of a tie-break it has some advantage. It is the most popular pairing system.		On few rounds it could fail to produce an acceptable standings because of the floater treatment that is unnecessarily too obsessive.
<b>Lim</b>	The priority is the color. The player with a higher rating will face stronger opponents and in the case of a tiebreak it has some advantage.	There are few rounds and the color assignment is important.	
<b>USCF</b>	The priority is the rating. Two arbiters could produce different pairing but equally legal.	There are few rounds and the history of floaters is of no concern.	

**15. How to set the result of an unrated game in Vega?**

Before 2009 for the FIDE a game could be considered in two ways:

- (a) played and rated;
- (b) unplayed and unrated.

Since July 2009 a new possibility appeared and a game could be considered


- (c) played but unrated.

(<http://www.fide.com/fide/handbook.html?id=197&view=article>)

**5. Unplayed Games**

5.1 Whether these occur because of forfeiture or any other reason, they are not counted. Any

game where both players have made at least one move will be rated.

The case (c) appears when the player loses without performing the first move (for example when a mobile telephone produces a noise). The result appears on the cross table but does not produce rating variation. In this case the arbiter needs to insert an unrated result using the **NON standard result** button . The unrated results are those with "U". See also question 20.

**16. In a round robin tournament a player withdrew before playing 50% of the games. How to delete all his games and ignore them during the calculation of the Sonneborn-Berger tie-break?**

Set the player status flag to the red [X].

**17. I have noticed that Vega does not operate correctly when the folder pathname contains non-standard characters.**

This has been fixed with version 6. Vega had problems when the pathname of the tournament folder contained accented characters, space or sign as °ç@#€%&. Anyway, I suggest using only standard characters (no accent) to make possible moving the file onto different operative systems and not produce problem to the generated web site.


**18. Which Linux version do you use to develop Vega.**

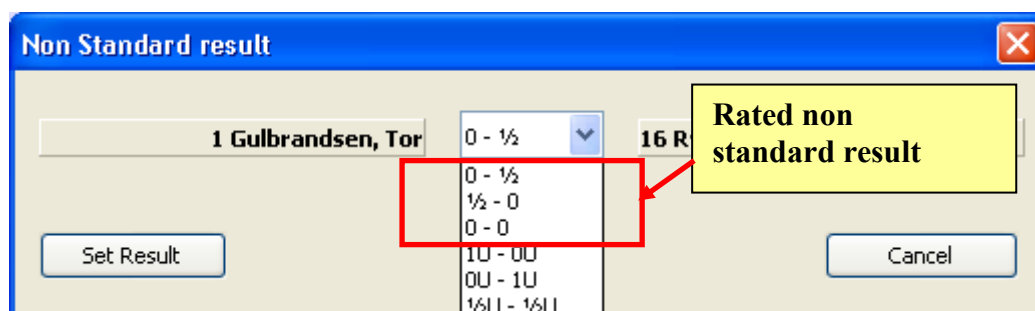
Lubuntu. If you need to install Linux only to be able to run Vega I recommend you to install the latest version of Lubuntu.

**19. I started a new tournament. I first entered a player as unrated and made the pairing. He was awarded a bye. Then deleted the first round, modified the player with a different rating, sorted, saved and made the pairing. In spite of the player having a rating, it still showed him as a bye (there are a few unrated players).**

You sorted the players clicking the "Rtg. FIDE" header in the page 'Players'. That does not really affect the order of the player but only how they are displayed on the screen. The correct procedure to assign the new pairing number N to the players is from menu **Extras / Regenerate pairing number** and then performing the pairing.

**20. How to insert a RATED non-standard result like ½ - 0 or 0 - ½.**

This is easily made with the **NON standard result** button  that prompts the following window:



The first three results (without 'U' - Unrated) are the rated ones. The remaining results with 'U' are the unrated ones.

**21. Can I realize a pairing forcing one or two pairs?**



Yes, of course. First make unavailable the players you want to pair. Then make the automatic pairing. In it the unavailable players will be absent of course. Now choose the option Modify pairing and add those players to the pairing.

**22. How does Vega calculate the Average Rating of Opponents for tie-break? Does it take in account unrated players and give just 0 for them?**

Vega uses the player's rating for pairing purposes as described on page 7. If the player is both FIDE and national unrated then for pairing (and tie-break) purpose 0 is used. In this case the ARO is not a good tie-break (better the ARO cut 1). Moreover, the arbiter should set the rating at some reasonable minimum to let the Swiss system based on rating work properly.



**23. I would like to import a document in Word but the .qtf files are difficult to handle.**

The .qtf file made by Vega are already automatically showed by Vega in the **Output** tab page. If you want to import in Word just select the text you like in Vega and copy and paste in Word.

**24. The FIDE unrated player entered the tournament with rating 0. This made the ARO calculation not reliable.**

It is responsibility of the arbiter to set a suitable rating to a player for pairing purpose. You may set in the National Rating field his national rating and it will be used for pairing and ARO tie-break calculations.

**25. I set five tie-break criteria but Vega shows only three.**

The standings obtained via the button  offers an elegant print-out but is limited to three tie-break criteria. If you need to show all use the option  that shows the standings in a text file.

**26. I run Windows 7 as user. I created a tournament in the installation directory and JaVaFo (Swiss Dutch system) doesn't give me the pairing.**

It is normal. Create the folder tournament OUT of that directory, like in c:\myTournaments. Moreover if the problem continues, enter your system as administrator, right click the Vega.exe file and set its property to run always as administrator. This is due to Java (JRE) not having the permission to write the output to the Program folder.

**27. How to print the results of previous rounds?**

In page "Round Manager" select the round you desire and then press the print pairing button.

**28. How to modify the player card to put on the table?**

The cards are generated using a template file in qtf format in the folder badgetemplate. Those files can be changed and new cards can be created. Use the built in editor (icon [W] in the output page) to open it and save.

**29. In a big tournament it would be very nice to print a pairing file in which the players are sorted alphabetically**

That file is already present. At each new pairing it is saved the file SortedPairs.txt. You can load it in the Output page by clicking the yellow folder.

**30. In 9 round Swiss tournament 16 players was playing in 8 boards. In round 4 three players didn't came and the tournament arbiter entered result as 1F-0F. Let's assume the player who came was 'A' and player who didn't came was 'B'. The result was player 'A' got a point. Again**

**in 6 round player 'A' was paired with player 'B' !!?!?, and this time also 'B' was absent. This led to taking away the chance of player 'A' to actually score a point from a good player. And this was repeated again in 9 round for the third time!!!!. It was very bizarre and no fairness for the Player 'A'. What was the actual reason for the Bizarre out come? Is it due to choosing 1F-0F instead of 1-0, or a software bug? Can you please clarify this issue in detail?**

That behavior is quite normal and a rule for FIDE competition see D.2 of this document

<http://www.fide.com/fide/handbook.html?id=84&view=article>

This is because it was an unplayed game and that players never played each other. The behavior looked bizarre just because you had few players and many unplayed games. In normal circumstances no such things happen.

**31. How to interpret the file that appears by pressing the checklist button in conjunction with the javafo Swiss engine?**

That file is a sort of check list useful to check the pairing made by the javafo engine. The details are described here

[http://www.rrweb.org/javafo/aum/JaVaFo2\\_AUM.htm#\\_Toc465604123](http://www.rrweb.org/javafo/aum/JaVaFo2_AUM.htm#_Toc465604123)

**32. I can't get the first pairing from JaVaFo in a 64 bit computer with the installed Vega in 32 bit mode.**

Please install the Java runtime at 32 bit. You must download it in offline mode because a 64 bit browser automatically will download a Java runtime at 64 bit.

**33. The tournament I run used the FIDE rating as principal rating. However the national history card show still players with FIDE rating instead of the national one.**

The National History card is based on the rating used for pairing purpose. In your case it was the FIDE rating. In case you run the tournament using the national rating then the history card will look as you expect. In other words, I do not recommend to show the history cards in your case.

**34. How can I enable/disable the virtual opponent in Buchholz tiebreak?**

The treatment of the so called "virtual opponent" is the default treatment in Vega and cannot be disabled, i.e. the unplayed games are always considered played against the virtual opponent.

What you can do is enable (default)/disable the adjusted score used for the unplayed games. For the FIDE the unplayed game is a draw. You can disable such option and consider for the Buchholz the real score at the end of the tournament. See this for more details

<http://www.vegachess.com/tl/index.php/vo.html>

**35. I made a program able to calculate a new superduper tiebreak. Can I use it in conjunction with the User TieBreak in Vega?**

Yes, you can. Vega saves and reads the user tie break value in the file usertb.txt. Look at the format of this file and just overwrite it with your program.

**36. From version 7.4.0 I cannot longer set the result ½F-½F (forfeit draw) in a pair. What can I do to set it anyway?**

That result is deprecated by FIDE and made invalid the rating report to FIDE. You cannot longer set ½F-½F (forfeit draw) in a pair. However you can assign ½ point BYE to the wanted players using the **Set player status option** before to do the pairing. In this way both players are excluded from the next pairing.

**37. At round 4 a late comer joined the tournament and I regenerated the pairing number.**

**Vega signaled a warning although I didn't modify any rating.**

It is normal. Vega does not know if you modified the players' data in the meanwhile and this could modify their previous relative order. Neglect that signal (for further info see section 2.9 regarding the pairing number).

**38. Why there is all this concern about pairing number?**

One reason is that to treat all players coherently during the whole Swiss tournament. In fact most of them are based on pairing number. The other reason is to permits to FIDE to check the correctness of the pairings and this is no longer possible if the pairing number are not stable during the tournament.

**39. I have imported a tournament generated by another software by the option *File/Import Tournament in FIDE format*. Vega missed the actual score system used in that tournament.**

Unfortunately, some relevant info is not contained in that file that is used for rating report. In order to import properly a tournament in the FIDE TRF2016 format generated by another software, the user needs to create a new tournament with: score system and BYE allocated pairing set according that tournament. These parameters cannot be changed in Vega once the tournament is started.

The other tournament parameters: pairing system, move rate, tie breaks, etc... can be set after the file has been read via the **Modify Tournament** panel. Please note that the eventual acceleration cannot be retrieved.

**40. How does work the score system "1 – 2 – 3"?**

It is used in some scholastic tournament. It assigns 3, 2 and 1 point respectively to win, draw and lost. Only the absent players that forfeit his game get 0 point.

**41. Can I add a QR code in the standings page?**

Yes and it is very easy. There are many servers online that generate a QR code for free. For example here: <http://goqr.me/> . With the following url <https://api.qrserver.com/v1/create-qr-code/?size=100x100&data=http://www.vegachess.com/OpenA> you get a QR code that scanned with a smartphone will give a link to <http://www.vegachess.com/OpenA> .

Once you got you QR code, save the image in PNG format exactly as **qr.png** in the tournament folder. Now the pages containing the standings and the pairings will have a QR code on the left side. In case you want to remove it, simply delete the file qr.png or rename it differently.

**42. I use Vega8/VegaTeam on Windows 10. Everything is OK but when I exit the program, I get a message saying "Error saving configuration file!". Moreover, I cannot change the language of the program.**

This problem has been solved with version 8.1. Please upgrade the program.

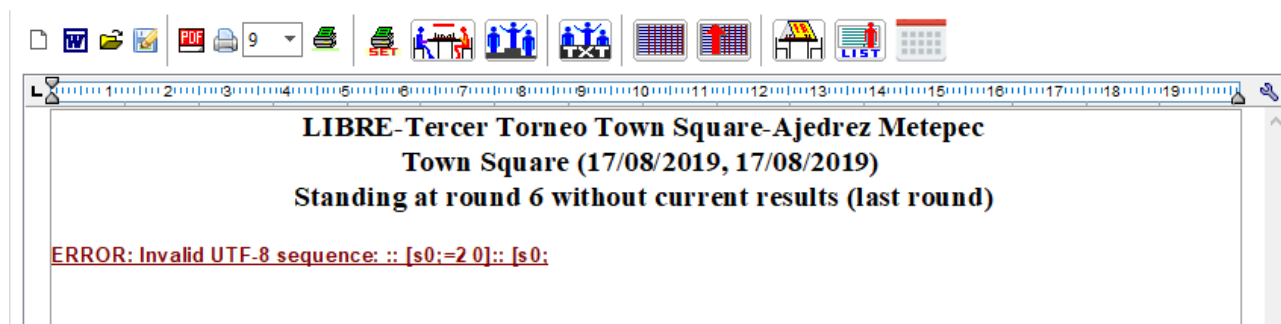
**43. I am using the database of the Swiss Chess Federation as a generic CSV archive and the filter Vega offer. I cannot import the players.**

You need to use the csv archive prepared for Swiss Manager. Then you have to convert it to UTF8. Only now you can use the database and its filter.

**44. Can I read with Vega 8 a veg file generated with Vega 7?**

Yes, you can read it and show and print the standings and pairings. No other elaboration and/or export should be done (if done they could contain error!). So this procedure is limited to show older tournament of historical value and should not be done with running tournament.

**45. I am not able to display the standings or the pairing. This is what I see.**



This is due to some strange character that entered in the name of some player. Vega can manage the database written in any languages if it is encoded in the so called UTF8 format. If the database is in some other encoding may happen what you see.

In your case the problem is caused by the unrecognized character at the end of player 27 (see picture below).

24	Bautista Castillo Eduardo	MEX	29/09/2	m	0	0	0	0	0	0
25	Chavez Arteaga Daniel	MEX	27/02/1	m	0	0	0	0	0	0
26	Cruz Avan Alexis	MEX	13/07/1	m	0	0	0	0	0	0
27	Espinoza Rosales Juan Jos□	MEX	0	m	0	0	0	16	0	0
28	Garcia Avila Sebastian	MEX	02/09/2	m	0	0	0	0	0	0
29	Garcia Dominguez Gabriel	MEX	13/01/2	m	0	0	0	20	0	0
30	Juarez Rojas Alan	MEX	24/08/2	m	0	0	0	0	0	0

These characters are displayed as little square. Just remove it to fix the problem.

The menu **Extra / Name Utility / Check UTF8** name will check all players name and inform you which names contain intruder characters. Then you need to fix it.

Please remind that in the folder tournament there are the standings and pairing files in TXT format that are not affected by this issue. Moreover, the wwwfolder contains too the standings and pairing file that can be printed without problem.

## Appendix B: Registration File and License

Anyone who uses Vega under Windows with more than 30 players (considering all tournament sections) needs a registration file. Before version 7 such a file was called **regcode.txt** and sent to the user. This file needed to be saved in the installation folder.

Since version 7 the registration file has a different format and it is called **serial.txt**. After buying it the file will be sent by email as an attachment.

For Windows: The user should save the attached file (without modifying or renaming it) in the installation folder and run the program. Alternatively the Windows user can use the following procedure that is valid only for Mac OS X (Mojave) users.

For Mac OS X:

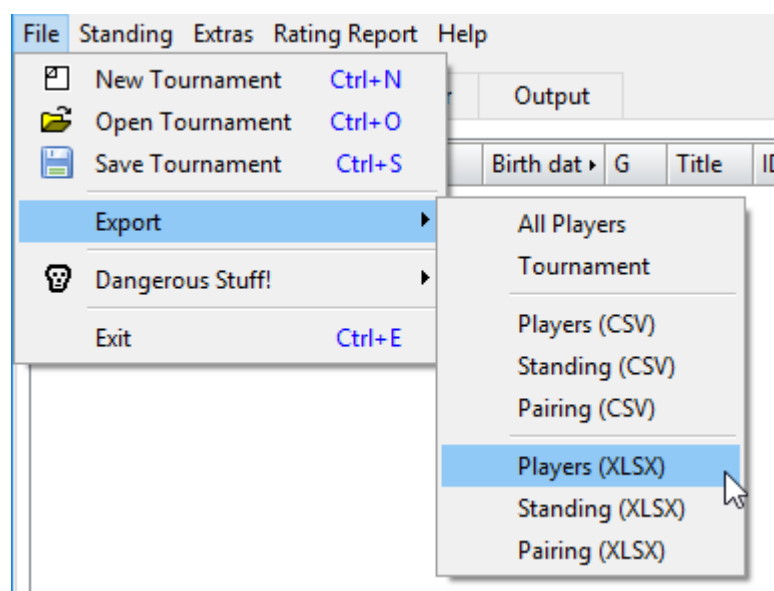
- a) menu Help/License Manager
- b) load license (locate the serial.txt file and load it)
- c) save it (the file is saved in HOME/Vega with name serial.txt)
- d) close and run Vega.

## Appendix C: How to prepare badge and place card with Word

It is possible to create badges and place cards automatically with data related to the running tournament. The following procedure has been tested with **Microsoft Word 2016**. Unfortunately, this description makes use of pictures taken from Word installed with the Italian language. So the user must be carefully to select the same option in his own language. Moreover, the user is strongly advised to follow on Youtube a short tutorial regarding the mail merge option offered by Word and then follow this tutorial.

Word permits to create automatically mails with data (name, address, telephone number, etc...) taken from a **database** (usually an Excel file). This is called the *mail merge* procedure. The Word document with the layout of each badge/card is called the **master document**. Thus, we need to create a master document and a database. In this tutorial, we want to create in a page of size A4 six badges 12 cm x 6 cm each. The page will be oriented in landscape mode.

1. Create the **database with Vega**: Open your tournament with Vega and export the players archive as a XLSX (Excel file):



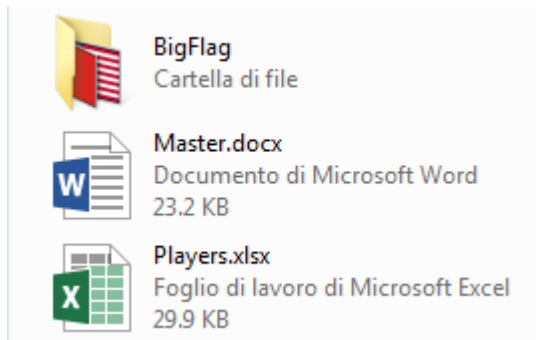
In the tournament folder Vega will save the file `Players.xlsx`. Moreover, Vega save a folder named `BigFlag` containing the flags of the players' federation.

The previous file will be generated ONLY if the Excel program is already installed on the user's computer.

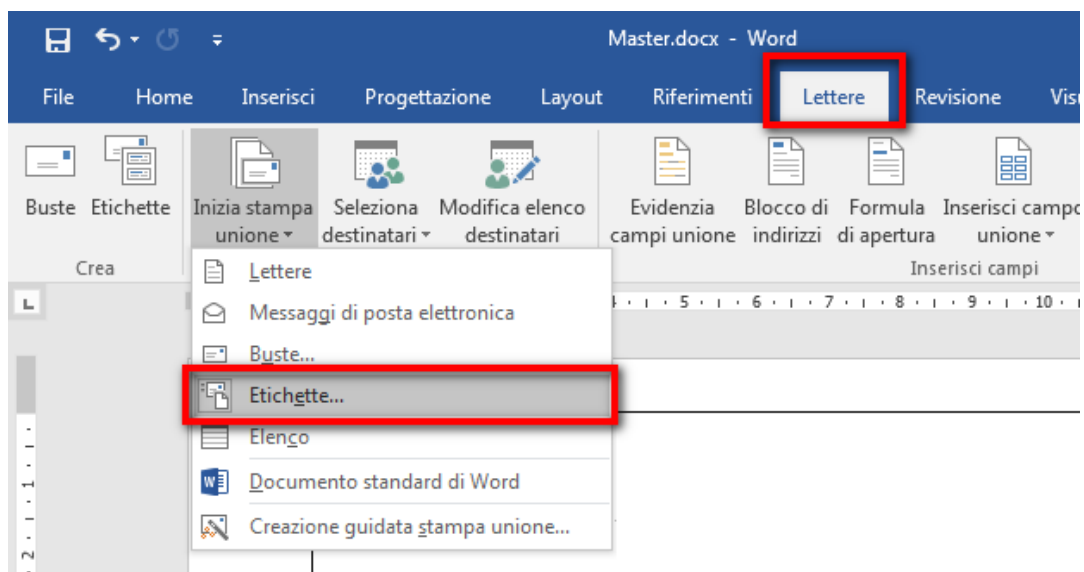
2. Create the **master document**: Create a new Word document, for example with name `master` and save it in the SAME folder where the file `Players.xlsx` is. Now in the tournament folder are present the following files <sup>(2)</sup>

---

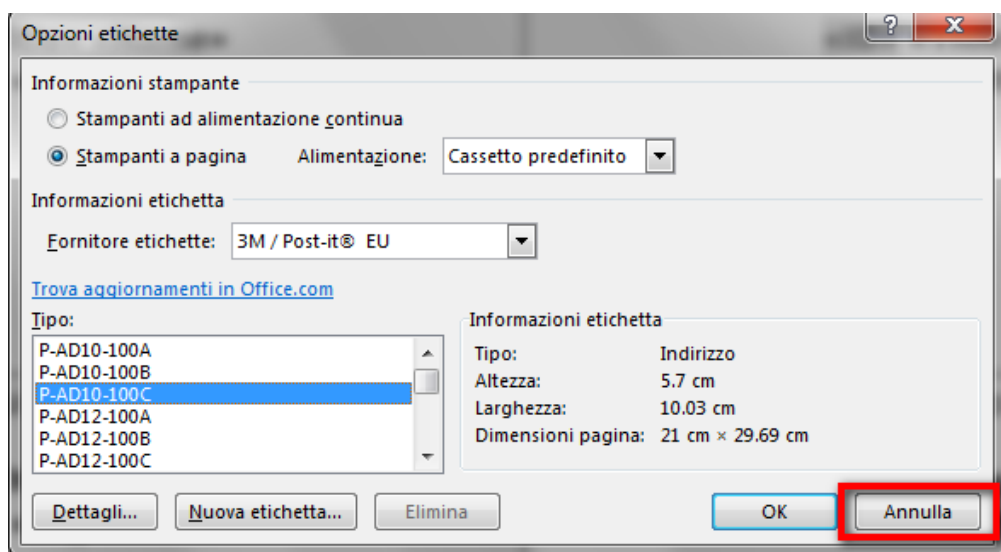
<sup>2</sup> By default Word 2016 save documents with extension DOCX. If you have a previous version of Word, then you have to save the document in the Word 97 - 2003 (.doc) format (other formats have been reported to not work).



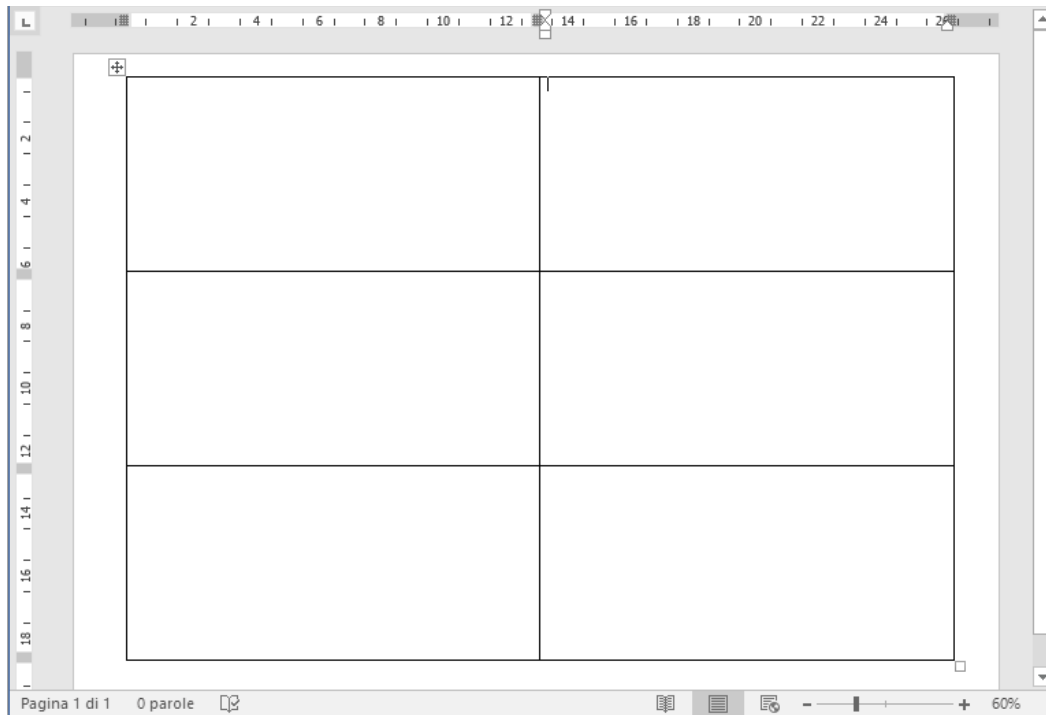
3. Select **Mailings / Labels**: in the master document select labels:



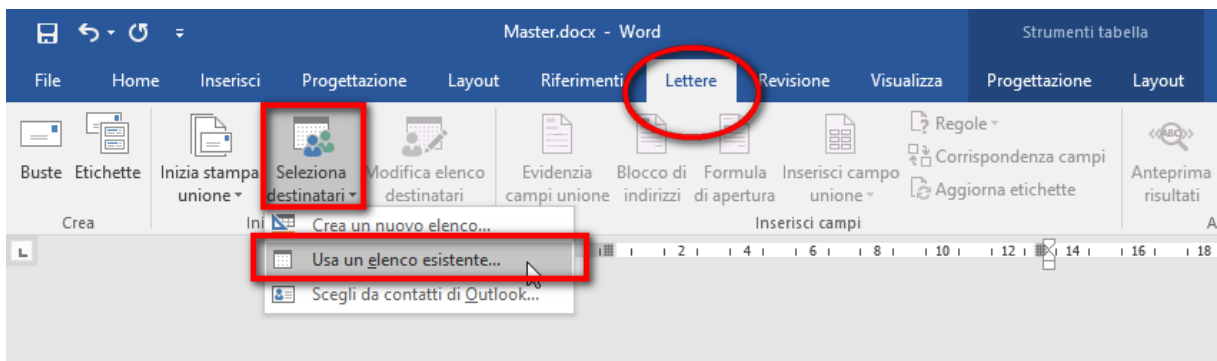
Word will ask to select a template for the labels but we just ignore its suggestion and close that window:



4. In the page (set with landscape orientation) of the master document the user must create a table with 3 rows and 2 columns having cells a little greater of 12x6 size:

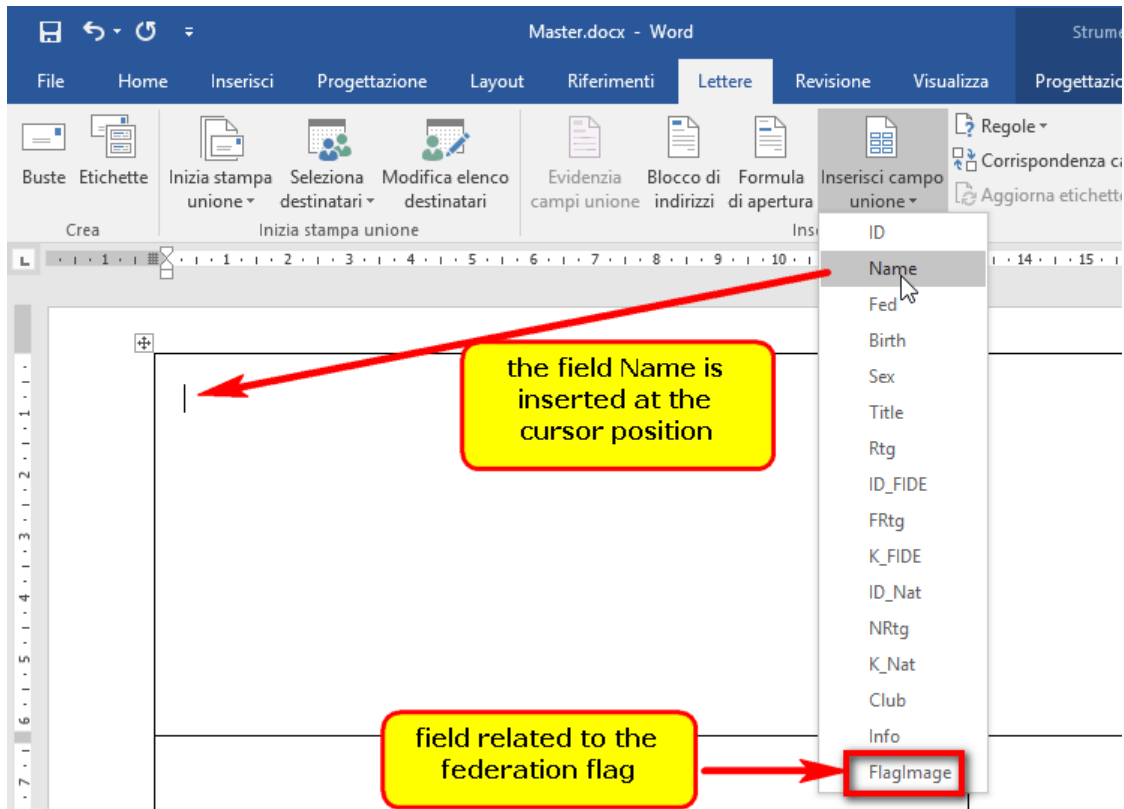


5. Connect the database, i.e. file players.xlsx, to the master document: **Mailings / Select Recipients / Use an Existing List** and choose the previous XLSX file:

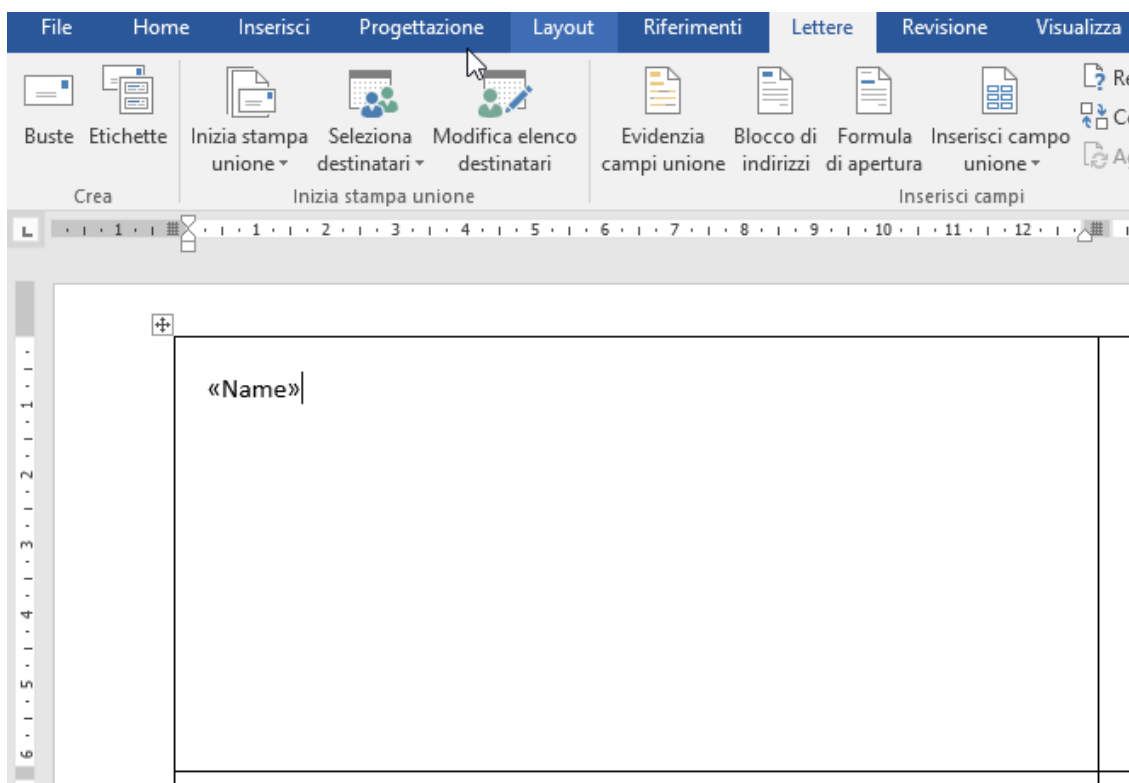


6. Create own badge: The user must work **ONLY** in the top-left cell and create his own badge. The following picture shows how to add the field Name containing the player name:

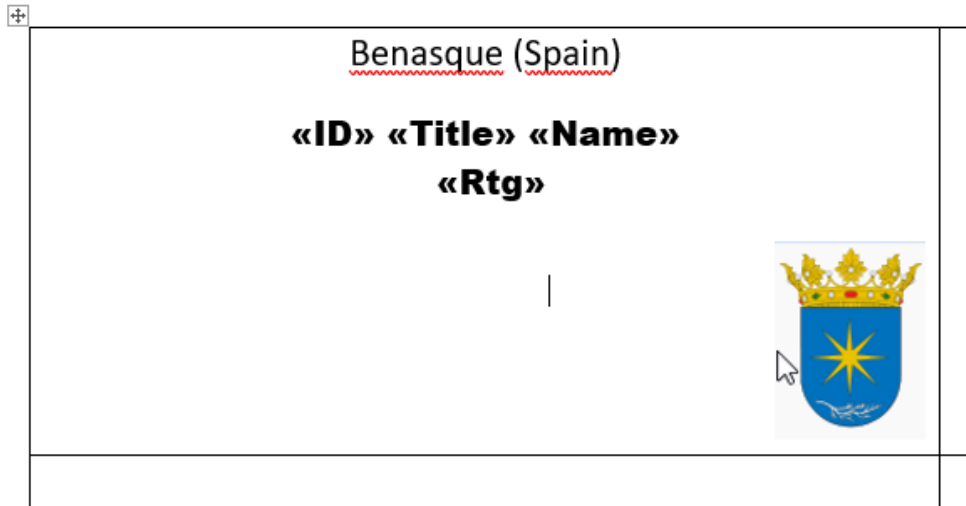




After the insertion the document looks like:



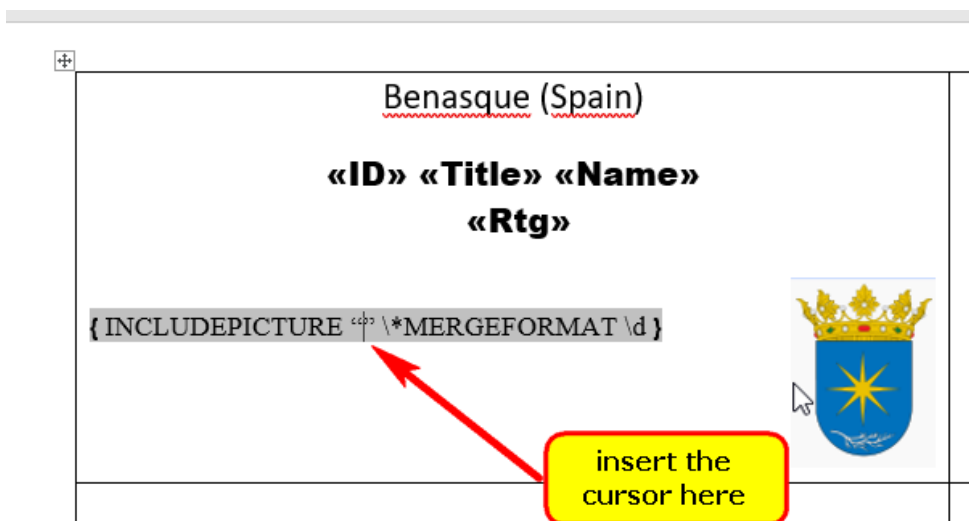
Other fields can be added in the same way. The user may add even some text and a logo. The following is a possible badge in which the <<field>> denote the place holder of the correspondent data:



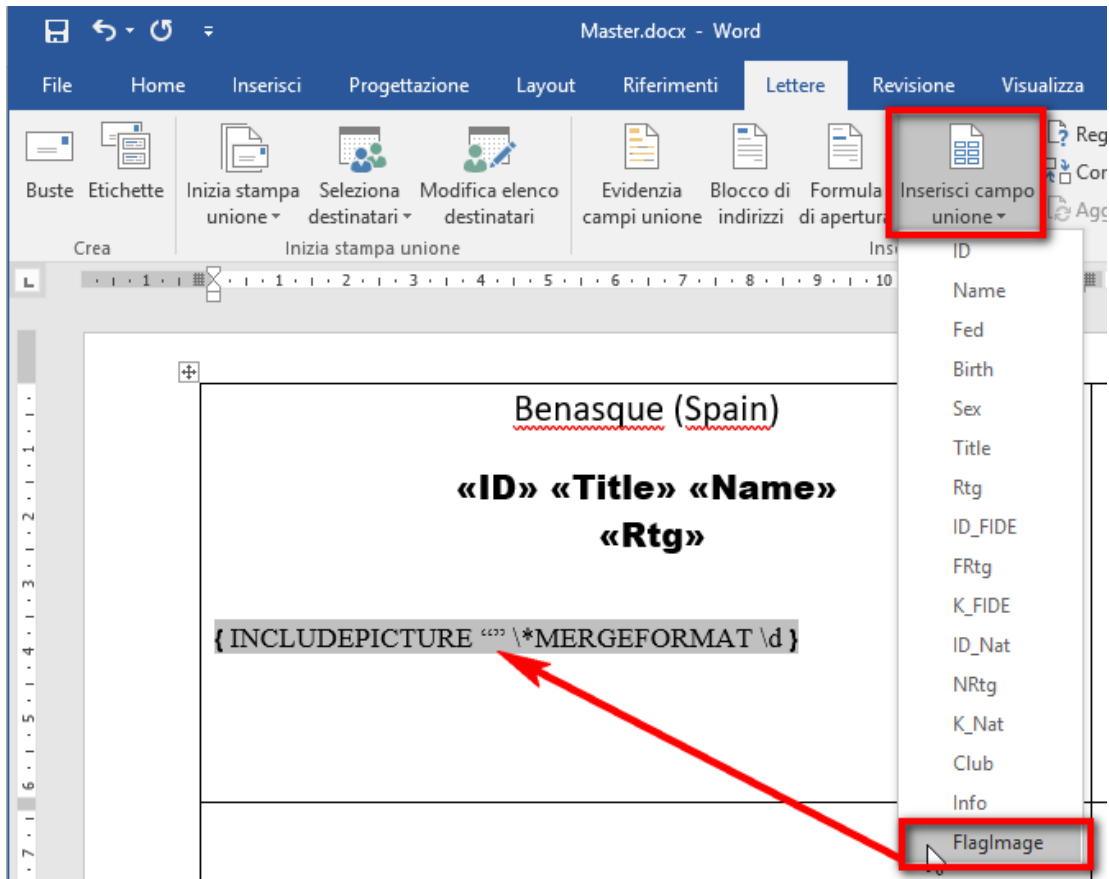
7. Add the federation flag: Put the cursor where the user like to have a federation flag and type **CTRL+F9**. A double curl bracket will appear. Within the {} copy and paste the following row:

INCLUDEPICTURE "" \\*MERGEFORMAT \d

Now the user should see something like this



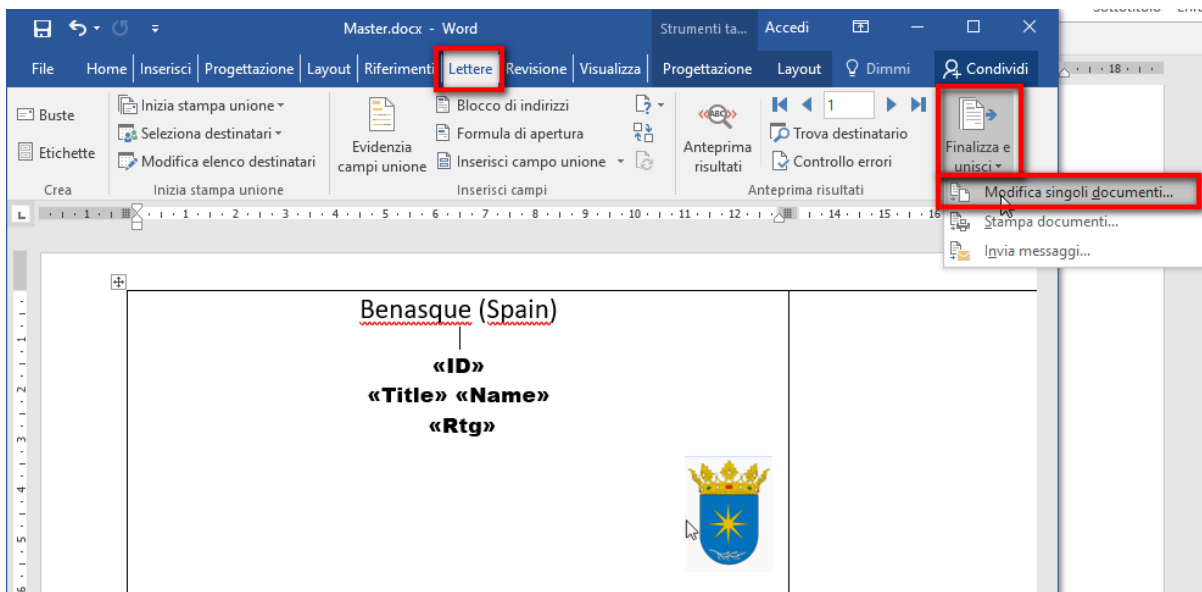
Leave the cursor inside "" and insert the field FlagImage as done with the other fields.



Now you should see:

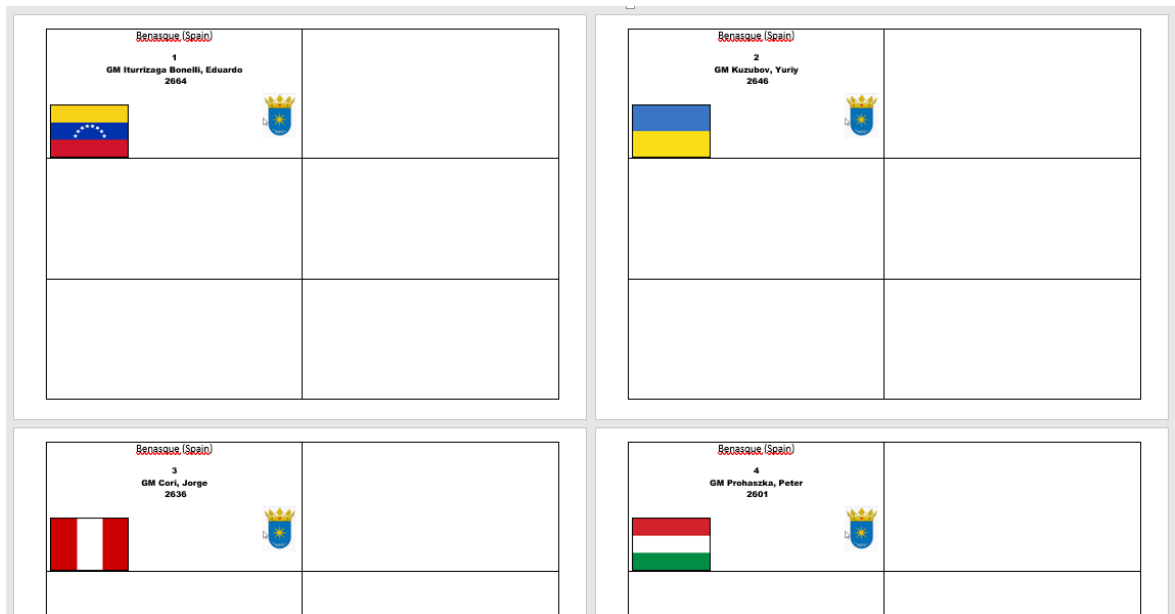
{ INCLUDEPICTURE "{ MERGEFIELD FlagImage }" \MERGEFORMAT \d }

8. Press **Alt + F9** (the text related to INCLUDEPICTURE will disappear, so do not panic).
9. Run the **Mailings / Finish & Merge/ Edit Individual Documents**:



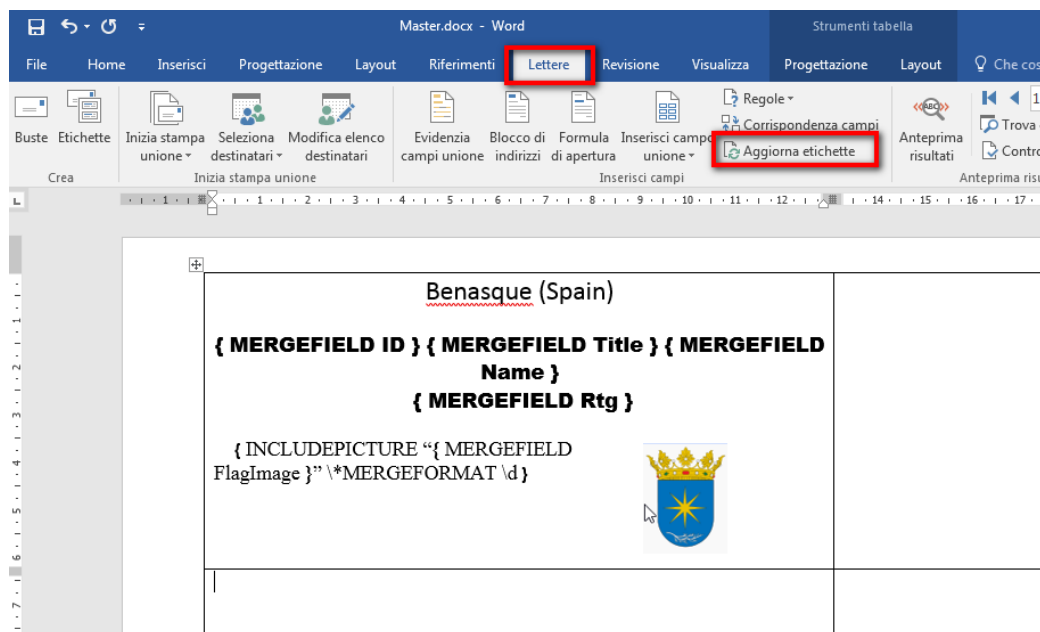
At the new window click “choose all” and press OK. Word will create a new document called **labels** with many pages but still NO flags appear.

Select the new created document. Press **Ctrl + A**; then press **F9**. Word will update all pages and replace the place holder by proper data and picture:



If the look is not satisfactory, the user can close the mail file and modify the position of the place holder in the Master document. To this end first press **ALT+F9** to show again the place holder. To see if the new look is OK repeat from step 7 until the wanted appearance is reached.

10. Fills other cells: when an acceptable badge is obtained we can fill the other cells.
  - Close without saving the labels documents.
  - Select the Master document.
  - Press **ALT+F9** to show the place holder.
  - Press **Update labels**:













and the other cells fill be filled as the first one

<p>Benasque (Spain)</p> <p>{ MERGEFIELD ID } { MERGEFIELD Title } { MERGEFIELD Name }</p> <p>{ MERGEFIELD Rtg }</p> <p>{ INCLUDEPICTURE "{ MERGEFIELD FlagImage }" \*MERGEFORMAT \d }</p> 	<p>{ NEXT }Benasque (Spain)</p> <p>{ MERGEFIELD ID } { MERGEFIELD Title } { MERGEFIELD Name }</p> <p>{ MERGEFIELD Rtg }</p> <p>{ INCLUDEPICTURE "{ MERGEFIELD FlagImage }" \*MERGEFORMAT \d }</p> 
<p>{ NEXT }Benasque (Spain)</p> <p>{ MERGEFIELD ID } { MERGEFIELD Title } { MERGEFIELD Name }</p> <p>{ MERGEFIELD Rtg }</p> <p>{ INCLUDEPICTURE "{ MERGEFIELD FlagImage }" \*MERGEFORMAT \d }</p> 	<p>{ NEXT }Benasque (Spain)</p> <p>{ MERGEFIELD ID } { MERGEFIELD Title } { MERGEFIELD Name }</p> <p>{ MERGEFIELD Rtg }</p> <p>{ INCLUDEPICTURE "{ MERGEFIELD FlagImage }" \*MERGEFORMAT \d }</p> 
<p>{ NEXT }Benasque (Spain)</p> <p>{ MERGEFIELD ID } { MERGEFIELD Title } { MERGEFIELD Name }</p> <p>{ MERGEFIELD Rtg }</p> <p>{ INCLUDEPICTURE "{ MERGEFIELD FlagImage }" \*MERGEFORMAT \d }</p> 	<p>{ NEXT }Benasque (Spain)</p> <p>{ MERGEFIELD ID } { MERGEFIELD Title } { MERGEFIELD Name }</p> <p>{ MERGEFIELD Rtg }</p> <p>{ INCLUDEPICTURE "{ MERGEFIELD FlagImage }" \*MERGEFORMAT \d }</p> 

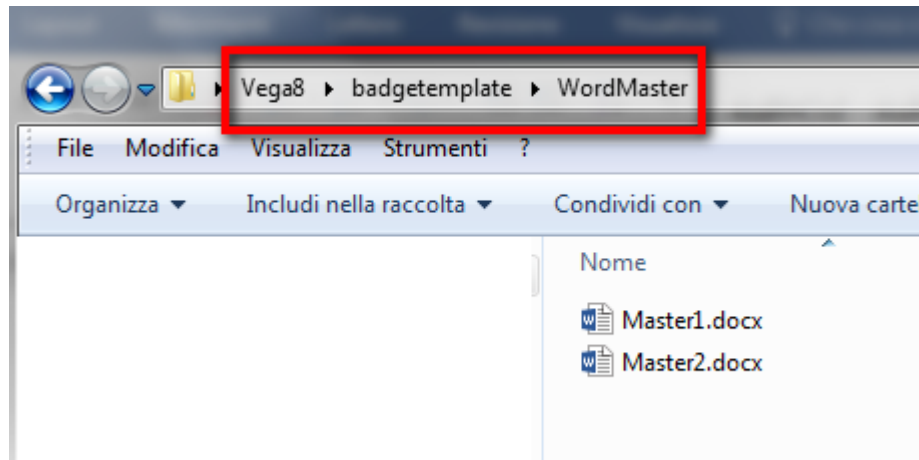
11. Now repeat steps 8 And 9, i.e.:

- press ALT+F9,
- Run the **Mailings / Finish & Merge/ Edit Individual Documents** and choose all;
- Select the new created mails document, press CTRL+A, press F9

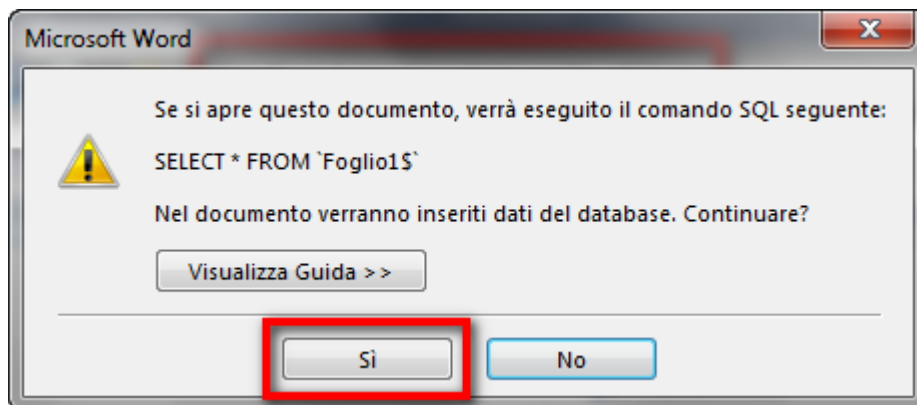
A new document ready to be printed with the wanted badges will appear:

<p>Benasque (Spain)</p> <p>1 GM Iturrizaga Bonelli, Eduardo 2664</p>  	<p>Benasque (Spain)</p> <p>2 GM Kuzubov, Yuriy 2646</p>  	<p>Benasque (Spain)</p> <p>7 GM Papp, Gabor 2598</p>  	<p>Benasque (Spain)</p> <p>8 GM Gozzoli, Yannick 2594</p>  
<p>Benasque (Spain)</p> <p>3 GM Cori, Jorge 2636</p>  	<p>Benasque (Spain)</p> <p>4 GM Prohászka, Peter 2601</p>  	<p>Benasque (Spain)</p> <p>9 GM Vocaturo, Daniele 2592</p>  	<p>Benasque (Spain)</p> <p>10 GM Gopal G.N. 2580</p>  
<p>Benasque (Spain)</p> <p>5 GM Baklan, Vladimir 2600</p>  	<p>Benasque (Spain)</p> <p>6 GM Banusz, Tamas 2600</p>  	<p>Benasque (Spain)</p> <p>11 GM Vazquez Igarza, Renier 2573</p>  	<p>Benasque (Spain)</p> <p>12 GM Forcen Esteban, Daniel 2536</p>  
<p>Benasque (Spain)</p> <p>13 IM Kantana, Toms 2531</p>  	<p>Benasque (Spain)</p> <p>14 GM Antal, Gergely 2524</p>  	<p>Benasque (Spain)</p> <p>19 GM Zoler, Dan 2499</p>  	<p>Benasque (Spain)</p> <p>20 GM Manolache, Marius 2497</p>  
<p>Benasque (Spain)</p> <p>15 IM Delorme, Axel 2518</p>  	<p>Benasque (Spain)</p> <p>16 GM Stella, Andrea 2506</p>  	<p>Benasque (Spain)</p> <p>21 GM Dobrov, Vladimir 2496</p>  	<p>Benasque (Spain)</p> <p>22 GM Martinez Duany, Lelys Stanley 2495</p>  

Vega has two master documents situated in the installation folder



The user can use them as template. To this end the master document should be copied in the tournament folder (where the Players.xlsx and BigFlag have been generated) and double click on it. A warning window will appear:



Then press Yes and choose the desired Players.xlsx file.

## Appendix D: Online insertion

The success of some tournaments depends by how fast is the process to collect the results and insert them in the computer where is installed the pairing program. Example of such a tournament are:

- 1) blitz tournament with several hundred players;
- 2) rapid games with several hundred players;
- 3) tournament played in different buildings but administered by the same computer.



Unfortunately, the way currently used to manage these challenging events are not very efficient and a not negligible time delay occurs between the end of a round and the begin of the next one. The new **Online insertion** service help the organizer and/or the arbitral team to run a big tournament in a very efficient way reducing or eliminating the unwanted time delay between rounds.

The solution takes advantage of the available technology. The insertion procedure is moved from the only arbiter behind the pairing program to several arbiters that insert the results in real time via an online procedure. Each arbiter enters the results of his area in precise and accurate way when they are available.

The tool used to insert the results can be any device able to run a web browser and connected to internet in wireless. This means all current smartphones and tablets can be used and no additional cost should be sustained by the organization. The inserted results are saved on the server running the service, i.e. the VegaResult site.



Each arbiter will check only the results he has inserted. When all results have been inserted, the pairing officer will download them in Vega with one click and a new pairing can be done without delay!

This service can be useful even in other cases. Sometimes a tournament has several sections distributed in different buildings. In this case can be very useful to have a parallel insertion of the results. The pairing officer can download the results when they are available and publish them immediately. Thanks to this service the pairing officer can operate in a place very far from that of the tournament and manage all the aspect of the tournament remotely.

The service can be activated on a tournament already defined on VegaResult by the option **ONLINE insertion: Add Arbiter**

The screenshot shows the VegaResult ONLINE web interface. At the top, there are tabs for "Status Bar", "Database 1", "Database 2", "Database 3", "Vesrus ONLINE", and "Vega Result ONLINE". Below the tabs is a login form with fields for "User" (containing "yam\_kopp@yahoo.it") and "Pass" (masked with asterisks), and buttons for "Login" and "Get players". To the right of the login form is a table with the following data:

Event name	City	Start	End	Section name	Id	Ev.Id
test	paola	05/01/2020	10/01/2020		222	135

A context menu is open over the table, listing several options: "List running tournaments", "List ALL tournaments", "Link selected tournament", "Import tournament data from server", "View selected tournament in browser", "ONLINE insertion: Add Arbiter" (highlighted with a red box and a red arrow pointing to it), and "Event Manager".



A new window will appear to define the arbiters enabled to enter the match results via web browser. **Each arbiter must be a registered user on the VegaResult site.**

Manage arbiters

Username (email)

forlano@vegachess.com

Add arbiter

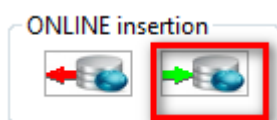
ID	Username (email)
113	yam_kopp@yahoo.it

Remove arbiter

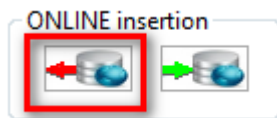
Done Close

To enter an arbiter just specify her/his email address used for VegaResult site. Then press the button **Add arbiter** to validate the insertion. The arbiter not yet registered are not accepted. There is no limit to the number of arbiters that can be assigned to the same tournament. An arbiter can be removed from the tournament after selecting it and then pressing **Remove arbiter**. It is possible to manage the arbiters at any moment.

When a new pairing is done the user needs to upload it to the server. This is done in the page **Round manager** pressing the button **Upload pairing**



At this point the pairing is available online and the arbiters enabled for this tournament can enter the results. When done the user can import the results with the button **Download results**



At this point the user can enter eventual missing results in Vega in the usual way and generate a new pairing and uploading it as seen before.

### 5. Inserting the result online via browser

The arbiters that were assigned to the tournament can visit the web site

<http://www.vegaresult.com/vb/>

using a smartphone or a tablet or any device supporting a web browser. A login page will appear

**VegaResult Online Insertion: login**

username

password

Here the arbiter needs to insert the username and password given at the registration and press **Login**. Then the pairing previously uploaded are displayed. In case the arbiter has been assigned to multiple tournaments a list of tournaments is displayed and he can choose one.

Arbiter: **Gabriele Rossi** logout

## Big Tournament

# Pairings

Show  pairings

Search:

Bd	White player	Result	Black player
1	DEL DOTTO Luigi	...	MARINO Luigi
2	VILLANI Luigi	...	SOMMA Luigi
3	DI COSTANZO Giovanni	...	SOSSI Giovanni
4	CONTIERI GIOVANNI	...	MIGLIARDI Giovanni
5	VACCA Luigi	...	INSETTI Luigi
6	MATTIELLO Giovanni	...	CARINI Giovanni
7	GAMBINO Giovanni Frances	...	MORELLO Giovanni
8	MERLINI Luigi	...	DONARELLI Giovanni
9	PECCI Pierluigi	...	ATTARDI Giovanni
10	BARGELLONI Luigi	...	CARTEI Luigi

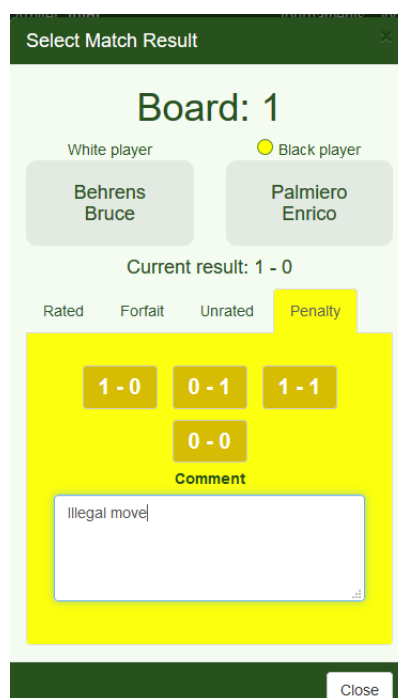
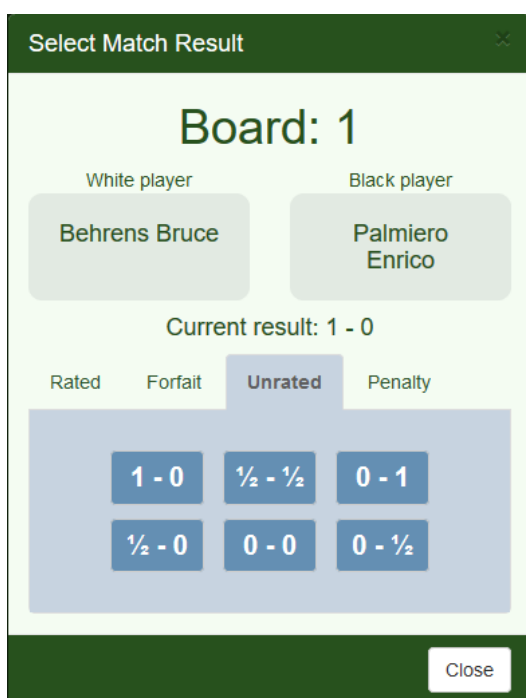
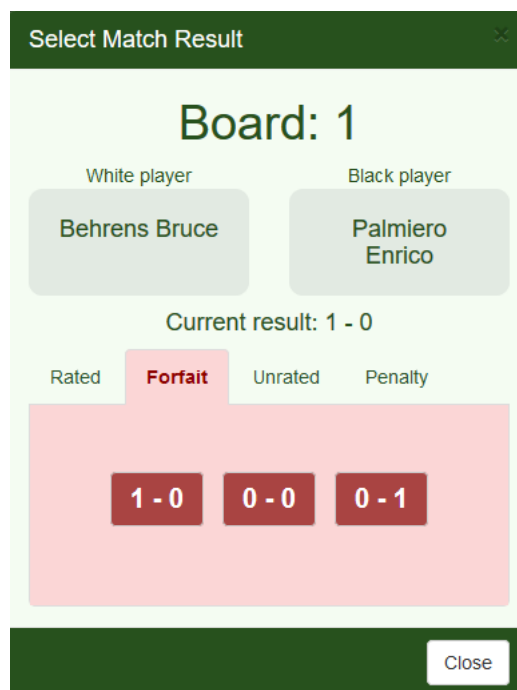
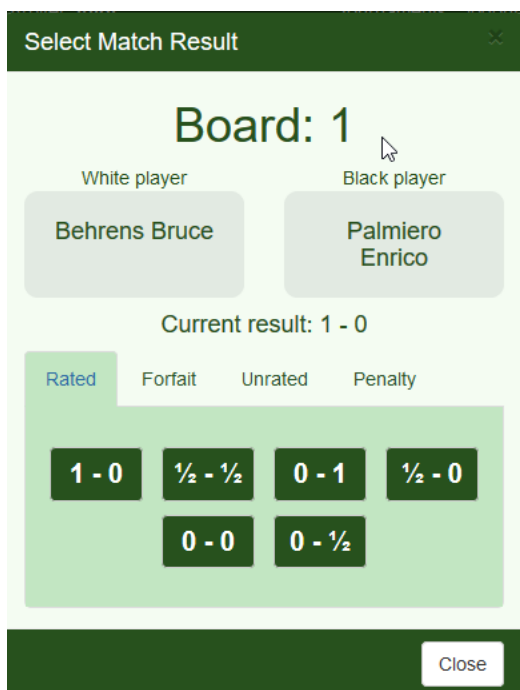
Showing 1 to 10 of 448 pairings

The options offered by this page are the usual offered by any web site that displays data in a table format.

On smartphones and tablets the table is shown in responsive way, i.e. it adapts the dimension to that of the device.

To insert or correct the result in a given board the arbiter needs to select the row belonging to the board. This can be done with the mouse left-click or tapping the screen depending by the device being used.

Then a new dialog will appear with the summary of the selected match. Here are shown three possible kinds of results (rated, forfeited, unrated).



The arbiter can choose one of the available results pressing the correspondent button. Then the

dialog result is closed and the inserted result is shown in the pairing list.  
The insertion procedure can be complete or partial. In this last case, the user behind Vega will download only the inserted results and he must insert the remaining.  
Moreover, a flag issuing a warning (for example in case of the first illegal move) can be added together a comment. The flagged player is signed with a yellow circle.

The service is currently free but the author reserves the right to make it available at a reasonable fee.

## Appendix E: Generic Tournament Description File

The user needs to fill in the form (some data are the defaults and cannot be changed at this point)

Tournament name	City	Federation	Date of start	Date of end
Amantea 2011 Magistrale	Amantea	ITA	04/09/2011	11/09/2011
Total Players	Rated Players	Type of tournament	Allotted time per move/game	
40	40	Individual: Swiss-System Dutch	moves/time, increment	
Chief Arbiter	Deputy Chief Arbiter(s)			
forlano				

Done Close

Press **Done** to confirm and save the file tournamentname-city.tdf in the tournament folder. The report is not saved if there are still present adjourned game and/or unfinished games.

The format of the tdf file is similar to the FIDE rating report. But it has four more columns: national player code, national rating, origin and info field. The fields are separate by “|” instead of being fixed length. Each row begins with a three digit code specific of some kind of data. Some rows may be absent. Empty rows should be skipped.

The file has two main sections. One regarding the whole tournament, and another with the history of each player. Here is the tournament section.

012 Tournament name  
022 City  
032 Federation  
042 Date of start  
052 Date of end  
062 Number of players  
072 Number of FIDE rated players  
082 Number of teams (in case of a team tournament)  
092 Pairing system (default is swiss system)  
102 Chief Arbiter  
112 Deputy Chief Arbiter(s)  
122 Allotted times per moves/game  
132 dates of the rounds separated by “;”  
142 points for game in format: W.W D.D  
    respectively for victory and draw. Default is 1.0 0.5  
152 current round  
162 total number of rounds  
172 used tie-breaks code separated by “;”  
182 name of the accelerated system if used  
192 Program used for pairing

## 202 pairing allocated Bye value

From the point of view of a rating system, many of the previous rows are just useless and can be simply skipped if not needed. The reader can focus only for the rows of interest and be ready to continue to work even if some of the previous rows are absent or present and unwanted.

The following is a real example with the data Vega saves each time (the comments are in red):

```
012 1 Torneo km zero Tournament name
022 Scalea Tournament place
032 ITA Host Federation
042 21/09/2017 Begin date
052 30/09/2017 End date
062 30 number of players
072 12 FIDE rated players
092 Individual: Swiss-System Dutch (JaVaFo) Pairing system
102 AF Luigi Forlano Arbiter
112 an empty row
122 90 minutes + 30 s of increment for move Time
132 17/09/22; 17/09/23; 17/09/24; 17/09/25; 17/09/26; 17/09/27; 17/09/28; date
142 1.0 0.5 point for win and draw
152 7 current round
162 9 Numbers of rounds
192 Vega 8.0.0 program name and version
202 0 value of the pairing allocated BYE: 0 = win, 1 = draw
```

After the previous sections come the player section that is mandatory.

Each row contains specific player data to permit his look-up in the FIDE and National database, and his tournament history as well.

The row can be in any order although the one following the Startingrank-Number should be the preferred one.

The player row starts with the three digit code "001", then a space delimits a record in which the fields are separated by the delimiter "|".

```
Startingrank-Number : 4 digit number
sex                 : "m" or "w" (default is "m")
Title               : max three characters
Name                : 32 characters
FIDE Rating         : 4 digit number
FIDE federation     : 3 characters
Origin              : 20 characters
Info                : 30 characters
FIDE code           : 12 digit number
National Rating     : 4 digit number
National code       : 12 characters
Birth Date          : 10 characters
Points              : in the form XX.X
Tournament Rank     : 4 digit number
Round 1             : see below
.....
Round last          : see below
```

## Round Description

The results have the same format of the FIDE ones (TRF2016 format) separated by “|”.

## Appendix F: Swiss System with Progressive Acceleration

**Objective:** This variant of the Swiss system aims to better match opponents of approximately equal strength during an open tournament. The goal is to allow international norms during an open tournament where less than half of the players have a FIDE rating.

**Principles of operation:** When pairing at the start of the round, each player has a global score (GS), which is equal to the real score gained by play (RS) plus a fictitious score (FS) between 0 and 2:

$$GS = RS + FS$$

Rather than relying solely on fixed full-point fictitious offsets to separate the groups, this system awards additional half-points based on achievement during the tournament. This allows the groups to merge together more gradually.

Calculation of the fictitious score

Players are divided in 3 groups A, B, C on the basis of their Elo rating. Each group includes a minimum of 25% and a maximum of 50% of all players. Elo rating is used to limit the groups, which are decided by the arbiter before the start of first round. The groups may be set according to the prizes determined by the organizers. In general, group A includes players having an Elo rating greater or equal to 2000 points and group C includes players with an Elo rating of less than 1600 points.

Like the standard accelerated system, at the start of the tournament, players in group A have two fictitious points (FS = 2), group B one fictitious point (FS = 1) and group C no fictitious points (FS = 0).

When a player of either group B or C gains at least 1.5 real points ( $RS \geq 1.5$ ), their fictitious score is increased a further half-point. When a player gains their third real point ( $RS \geq 3$ ), their fictitious score is increased another half-point. Thus group B players can eventually attain the maximum of number of fictitious points (FS = 2).

When a player of group C gains at least 4.5 real points ( $RS \geq 4.5$ ), their fictitious score is increased by a half-point for the third time.

When a player achieves  $N/2$  real points (where N is the number of rounds in the tournament), their fictitious score is brought to 2.

Before the penultimate round, all fictitious points are cancelled and the system becomes a usual Swiss system.

Summary table

Within each cell, the top number represents the real points and the number within brackets is the fictitious amount added in order to achieve the Global Score (GS).

The rightmost cells of the table consider cases with more than 11 rounds (they don't include groups A or B). Lower-case "n" in this case represents the number of rounds.

GS	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
Grp.A					0 (2)	0.5 (2)	1 (2)	1.5 (2)	2 (2)	2.5 (2)	3 (2)	3.5 (2)	4 (2)	4.5 (2)	5 (2)
Grp.B			0 (1)	0.5 (1)	1 (1)		1.5 (1.5)	2 (1.5)	2.5 (1.5)	3 (2)	3.5 (2)	4 (2)	4.5 (2)	5 (2)	
Grp.C n=9	0 (0)	0.5 (0)	1 (0)		1.5 (0.5)	2 (0.5)	2.5 (0.5)		3 (1)	3.5 (1)	4 (1)			4.5 (2)	5 (2)
Grp.C n>11	0 (0)	0.5 (0)	1 (0)		1.5 (0.5)	2 (0.5)	2.4 (0.5)		3 (1)	3.5 (1)	4 (1)		4.5 (1.5)	5 (1.5)	5.5 (1.5)



## Appendix G: Notes on the USCF Swiss Implemented in Vega

Vega implements all the USCF rules (*USCF Official Rules* - 5<sup>th</sup> edition 2003). However, the user should be aware of the default behaviour of the program.

1. At the end of the natural pairing Vega improves the colors using the “Look Ahead method”. Vega saves in the text file colorlogN.txt (N is the current round) all the switches made during the application of the look ahead method. The following are typical messages referred to the natural pairing:

...

Done Transposition between pairs 1, 4

[1] R80 = 0, R200 = 1: D\_trans = 54, D\_inter\_1 = 442, D\_inter\_0 = 73

Done Interchange between pairs 2, 8

[4] R80 = 0, R200 = 1: D\_trans = 124, D\_inter\_1 = 59, D\_inter\_0 = 343

...

The meaning is:

R80: is 1 if can be applied the 80 point rule, otherwise is 0;

R200: is 1 if can be applied the 200 point rule, otherwise is 0;

D\_trans: rating difference of the transposition between the pairs;

D\_inter\_1: rating difference of the interchange  $A \Leftrightarrow D$ , in the pairs A-B and C-D; D\_inter\_0: rating difference of the interchange  $B \Leftrightarrow C$ , in the pairs A-B and C-D.

2. The unrated players in Vega are the players with rating exactly equal to 0. The unrated are treated differently by the USCF rules with respect to the BYE and the odd player determination. All the players with rating greater than 0 are instead treated in the same way by Vega. Thus, if the Tournament Director prefers to give to the unrated players the highest priority to be the odd player, the TD should simply assign to them a minimum rating different from zero, for example 1.

## Appendix H: Additional Notes for the ECF Tournament Director

Vega is configured to make use of two alternative ECF databases:

- a) The CSV database that can be downloaded from ECF web-site <http://www.englishchess.org.uk/> . This database can be selected by pressing Set DB on the **Players Archive** page and choosing **archive ECF** from the list of predefined databases. It is not necessary to specify a data filter as this is pre-loaded.
- b) The ECF master list (if available). This is usually supplied in dBase (.dbf format), but can be opened with Microsoft Excel (for example) and saved again as a text format (.csv) file. Before saving the text format file it is necessary to set the field delimiter as ‘;’ instead of ‘,’ . The appropriate data filter is set by clicking **Set Filter**, then **Load Filter** and choosing **MasterListECF** from the list of available filters.

In order to produce the appropriate ECF rating report, a tournament director should be aware of the following:

- a) The **ID NAT** field of a player should be filled with the exact code found in the database of the ECF. If the player is not yet graded and he is not present in any database, the **ORIGIN** field must be filled with the club code of the player (it is a 4 characters long). If **both ID NAT** and **ORIGIN** fields are empty then the ECF Checker program will flag an error.
- b) The **report** is generated by using the menu item **Report**→**ECF**→**Process current section** and filling in the following form:

**Result Report to ECF**

Event Code	Submission Number	Event Name				
IA4353	1	London				
Event Date	Final Date	Grader Name	Grader Address			
13/09/2014	14/09/2014	John Doe	john@myemail.uk			
Treasurer Name		Treasurer Address	Grand Prix			
xxx		xxx	Y			
<b>Rate of play</b>						
min. for game	min. 1st session	moves 1st session	min. 2nd session	moves 2nd session	min. rest game	seconds/move
90						

Done Close

Once complete, clicking on **Done** will generate a file by the name of ECFResults.txt, which is to be fed to the ECF Checker program.

## Appendix I: Buchholz and Sonneborn-Berger Tie-breaks for Unplayed Games [NO LONGER USED BY FIDE AFTER 1 APRIL 2024]

As far as the Buchholz and Sonneborn-Berger system is concerned, Vega follows the rule of 80th FIDE CONGRESS 2009 Kallithea, Greece – Minutes of Swiss Pairings Programs Committee Meeting:

### 7. Handling of unplayed games in Swiss tournaments

The committee agreed unanimously to handle unplayed games in Swiss tournaments as follows:

There are two points of view:

- a. For the player himself who gets a result by default or is absent
- b. For the opponents in other rounds of the player who gets a result by default

a. The new style Buchholz uses a virtual opponent to calculate the Buchholz score for a result by default. A virtual opponent has the same points at the beginning of the round and the result by default of a player is treated as a normal result, so a loss by default (by absence) is a win for the virtual opponent and vice versa. For each next round the virtual opponent gains half a point.

b. For reducing the consequence for the opponents when calculating Buchholz, each result by default of a player is counted as a half point (draw) for the Buchholz of the player's opponents.

Examples:

1. In a 9 round swiss the player A achieves 6 points including a default win in round 3. After round 2 A had 2 points score.

The contribution of round 3 for A is  $2 + 0 + 6 \times 0.5 = 5$  points Buchholz

The contribution of A for his opponents' Buchholz is 5.5

2. In a 9 round swiss the player B was absent in round 7 and scored 6 points after round 9. After round 6 B had 4 points.

The contribution of round 7 for B is  $4 + 1 + 2 \times 0.5 = 6$  points Buchholz

The contribution of B for his opponents' Buchholz is 6.5

NOTE: The previous example apply only to Buchholz calculation. In case of Sonneborn-Berger the player that lost to forfeit get no tie-break points

(<http://www.chesscafe.com/text/geurt174.pdf> pag 4).

In Round Robin tournament the unplayed games are considered as really played (<http://www.chesscafe.com/text/geurt176.pdf> pag 1).

The user can choose whether to adjust the score of the unplayed games (consider them as draw) before applying the Buchholz and Sonneborn-Berger. This is done via the **adjusted score for Buc and S-B** checkbox.

## Appendix L: Zermelo Score System

The method of paired comparison has been applied to chess tournaments. The model used is that proposed by Davison and Beaver [1] and has been implemented in Vega as a supplementary tool able to provide a new, fairer standings at the end of a tournament. The proposed score system in Vega is named Zermelo score system after the first scholar who proposed the method. In fact, historically, the method was created with chess as the main application.

There are situations where a set of objects is to be evaluated on the basis of responses obtained when the objects are presented in pairs. This method is known as method of paired comparison. It has been used in contexts as marketing research, taste testing experiments, and other sensory discrimination studies for which the responses to the objects are a function of a complex physiological process. Moreover, in several sports the competitors are ranked on the basis of their performance when they meet in pairs. Chess is one of them.

Using the paired comparison method of experimentation, each pair formed from a set of  $m$  objects is presented to a respondent who is asked to indicate a preference for one member of the pair. It is assumed that the responses to the objects can be described in terms of an underlying continuum on which the "worths" of the objects can be relatively located.

Translating the previous words into chess language is rather easy. The tournaments, both Round Robin and Swiss systems, produce natural paired comparisons at each round and the response is just the game result. We assume the game result depends on the player strength denoted by  $\gamma$ .

Given two players,  $i$  and  $j$ , with strenght  $\gamma_i$  and  $\gamma_j$  respectively, for the ordered pair  $(i, j)$ , i.e. with  $i$  playing with white pieces, we have the following formula

$$P(i \rightarrow j | i, j) = \frac{\gamma_i}{\gamma_i + \theta\gamma_j + \nu\sqrt{\gamma_i\gamma_j}}$$

$$P(j \rightarrow i | i, j) = \frac{\theta\gamma_j}{\gamma_i + \theta\gamma_j + \nu\sqrt{\gamma_i\gamma_j}}$$

$$P(j \approx i | i, j) = \frac{\nu\sqrt{\gamma_i\gamma_j}}{\gamma_i + \theta\gamma_j + \nu\sqrt{\gamma_i\gamma_j}}$$

where  $P(i \rightarrow j | i, j)$  is the probability that  $i$  beats  $j$ ,  $P(j \rightarrow i | i, j)$  the probability that  $j$  beats  $i$ , and  $P(j \approx i | i, j)$  is the draw probability. The parameter  $\theta > 0$  is related to the colour ( $\theta > 1$  means that player playing black has advantage,  $\theta < 1$  means that player playing white has advantage,  $\theta = 1$  means that no colours bring advantage to the players). The parameter  $\nu \geq 0$  is related to the draw preference ( $\nu = 0$  means that draw is not possible). Both  $\theta$  and  $\nu$  are unknown and must be determined together the  $\gamma_i$ .

The task to calculate the unknowns is performed via an iterative procedure described in [1] and implemented in Vega. Moreover, the user has some possibility to tune the parameters.

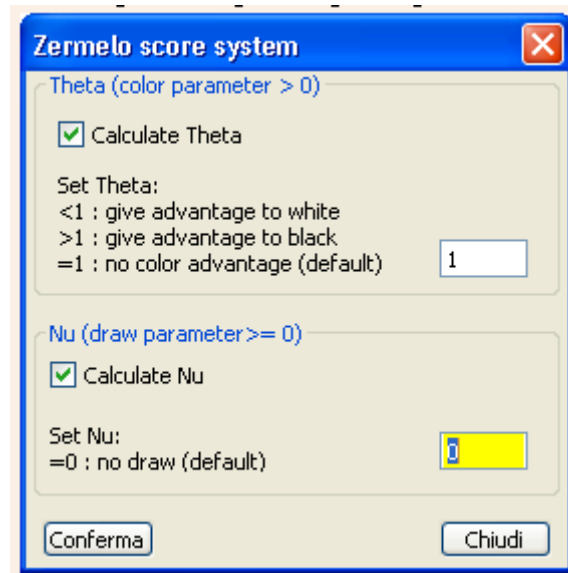
### Option: Zermelo Score System

With this option the procedure is applied looking for  $\gamma_i$  but setting  $\nu=0$  and  $\theta=1$  as in the original

Zermelo paper. The  $\gamma_i$  are in the 'Z Pts' column. The column 'ZN Pts' is the same of 'Z Pts' but with the greatest  $\gamma_i$  set to 100. The method does not broken the tie in a round robin tournament and is not particularly useful in this case because the ranking is the same of score percentage. In Swiss systems it turn out to be much more useful.

### Option: Zermelo Score System Extended

With this option a panel prompts the user to choose how to perform the calculations:



The user may ask to find both parameters  $\nu$  and  $\theta$  or set one or both to some value.

### Reference

[1]: On Extending the Bradley-Terry Model to Incorporate Within-Pair Order Effects, Roger R. Davidson and Robert J. Beaver Biometrics Vol. 33, No. 4 (Dec., 1977), pp. 693-702

## Appendix M: Random tournament and tournament validation

Vega (only Windows version) can be used to generate Swiss tournament with Dubov system. The output format is the FIDE exchange TRF2016. Vega can even import this file and check if it is compliant to Dubov system rules.

The installation folder contains two files that make easy to generate and check many files at once.

### File **generate.bat** :

Contains the command

```
FOR /l %%i in (1,1,100) do @Vega8.exe -g PATHFOLDER
```

that generates 100 random tournaments in the folder `PATHFOLDER`.

**NOTE:** (1) The string `PATHFOLDER` should be terminated by `"\"` and specified by the user.  
(2) It should not contain blank space.  
(3) The folder containing the generated tournaments should already exists.

An example of correct input to generate 100 tournaments is:

```
FOR /l %%i in (1,1,100) do @Vega7.exe -g C:\Users\luigi\vegatornei\bbb\
```

Instead of 100 the user can input any number.

Here is a typical filename of the tournament generated by Vega:

FIDE-TRN-50-12\_162147026.trf

where 50 e 12 are respectively players and rounds of the generated tournament; then follow the time stamp in the format hh-mm-ss-milliseconds.

The following are the default values used by Vega to generate sensible tournaments:

Number of players : [15, 215]

player rating = [2000, 2600]

number of rounds : [7, 15]

probability of forfeited game = 0.02

average number of retired players =  $\text{players} \times \text{rounds} / 250$

average number of ½ point bye given two rounds before the last round =  $\text{players} \times \text{rounds} / 150$

game result = probability according to the player rating difference.

### File **check.bat** :

Contains the command

```
for %%f in (PATHFOLDER\FIDE-*.trf) do @Vega7.exe -c "%%f"
```

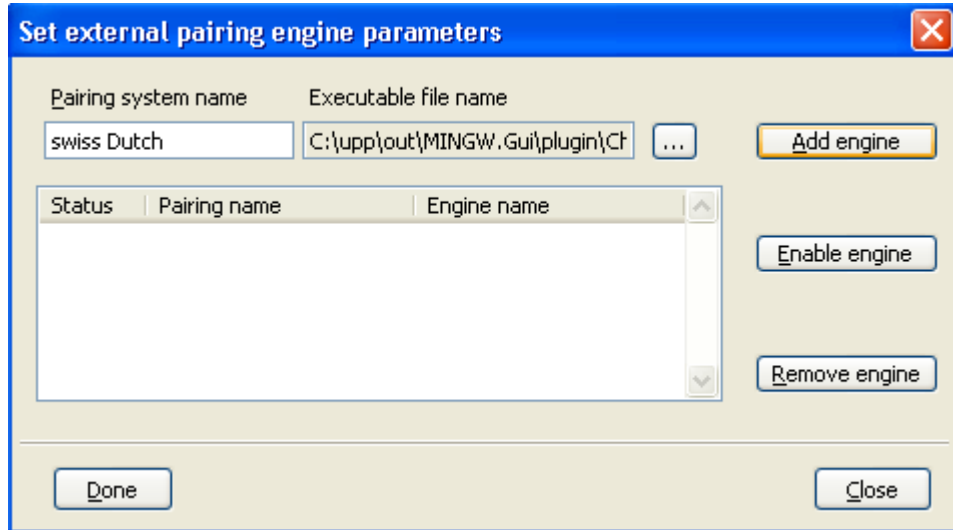
that will check all files starting with word "FIDE-" and ending with ".trf". Here is a valid example:

```
for %%f in (C:\Users\luigi\vegatornei\bbb\FIDE-*.trf) do @Vega8.exe -c "%%f"
```

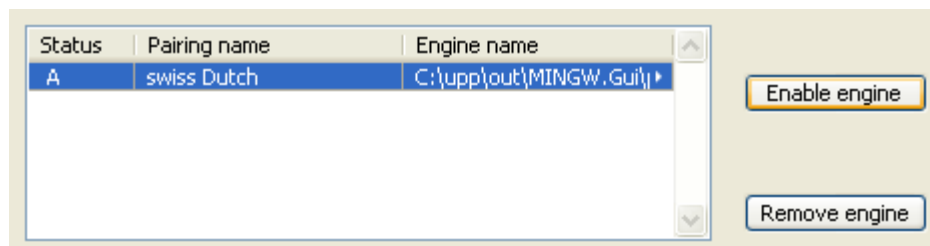
Vega will check the pairing in reverse order: from last to the first. When done Vega saves the file **checker.txt** with the details of the comparison.

## Appendix N: Adding an External Pairing Engine

Vega permits the addition of a third-party pairing engine (it can be freely made by anyone). The executable must reside in the **plugin** folder under the installation folder. To add the engine, select the menu item **Extras** → **Add External Pairing Engine**. Vega will show the following window:

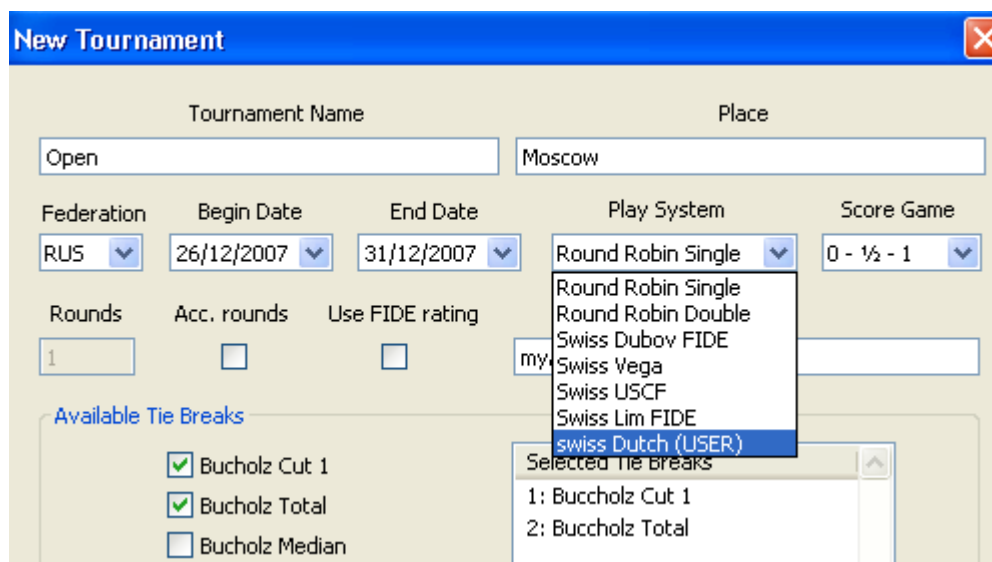


The user should enter the name of the pairing system, the full path of the executable, and then press the **Add engine** button.



There can be several engines but only one can be used at time. To choose one of interest, the user needs to select one of them, press the button **Enable engine** (an 'A' will appear on its left side), and then click **Done**.

In order to use the external engine the user should select it during the definition of a new tournament.



At each round Vega runs the executable engine with the following command:

```
$> engine_name tournament_path file_name.trfx
```

Where `tournament_path` is the path of the tournament folder, and `file_name.trfx` is the file automatically generated containing the tournament data. In this way the engine is correctly addressed where the important tournament files are with appropriate parameters.

***NOTE:** It is recommended that the `tournament_path` does not contains blank space or unusual characters to prevent the engine to work correctly.*

***NOTE:** It is responsibility of the extern engine to retrieve all the relevant tournament data from the `trfx` file saved by Vega in the tournament folder. The engine must save all its output in the tournament folder.*

Vega expects from the engine a file that at round N should be named as **engine.man** containing the pairing at round N in the following format: a first row with the number of the pairs, and for each successive row, the IDs of the player of each pair. This is a typical \*.man file containing 5 pairs:

```
5
5 2
17 10
16 13
8 11
9 3
```

(the BYE has ID=0). If this file exists Vega will load it and continues with the insertion of results and making all the ranking lists.

The `file_name.trfx` is used by Vega to pass sensible data to the external pairing engine. It is the same used, for example, to drive the JaVaFo engine, © Roberto Ricca, and its specification are detailed here [http://www.rweb.org/javafo/aum/JaVaFo2\\_AUM.htm#\\_Toc465604110](http://www.rweb.org/javafo/aum/JaVaFo2_AUM.htm#_Toc465604110)

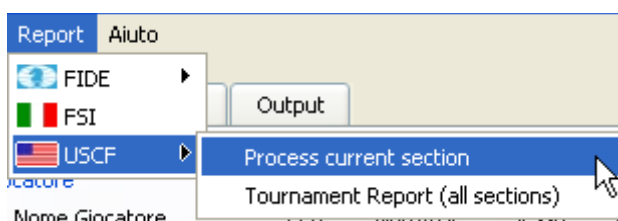


## Appendix O: USCF Rating Report

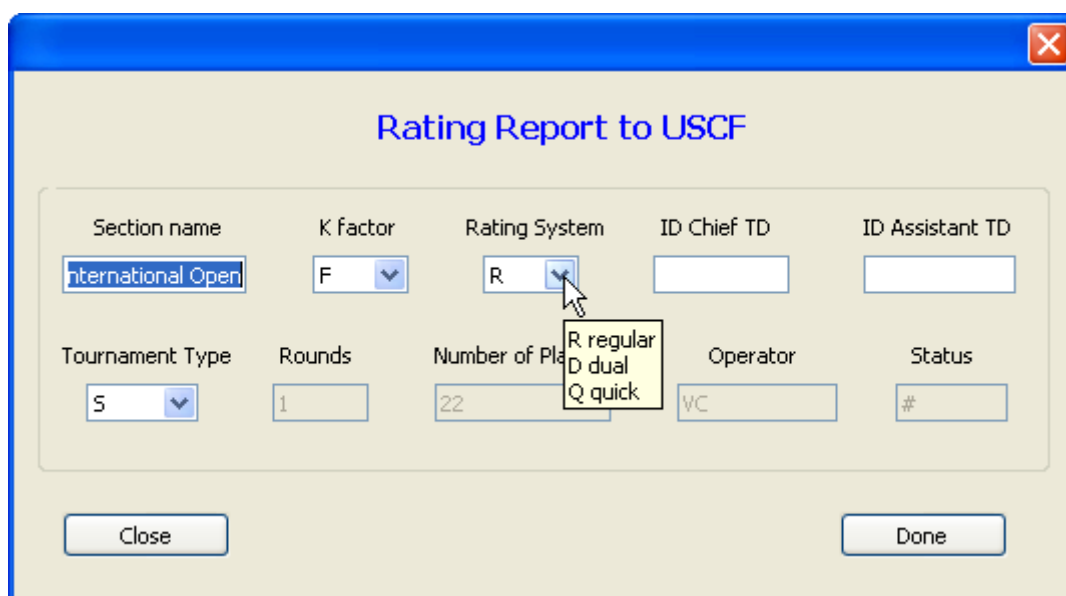
In a large tournament there are usually several sections (for example Open, U2000, U1800, U1600). A Vega session can administer only one section of the tournament at a time. This is not a limitation because you can run multiple sessions of the program simultaneously or use the option **Extra/Set Festival**. The rating report for USCF needs 2 steps to be performed:

1. Generate an auxiliary file from each section. It contains information to be processed (file uscfscn.txt);
2. Process all the uscfscn.txt files and generate the three files needed by USCF for the final report: thexport.dbf, tsexport.dbf, tdexport.dbf.

These last files are not covered here (see the USCF Forum for details). Now we'll see how to generate them. The first task is performed when the section tournament is finished by selecting the option **Report / USCF/ Process current section**:

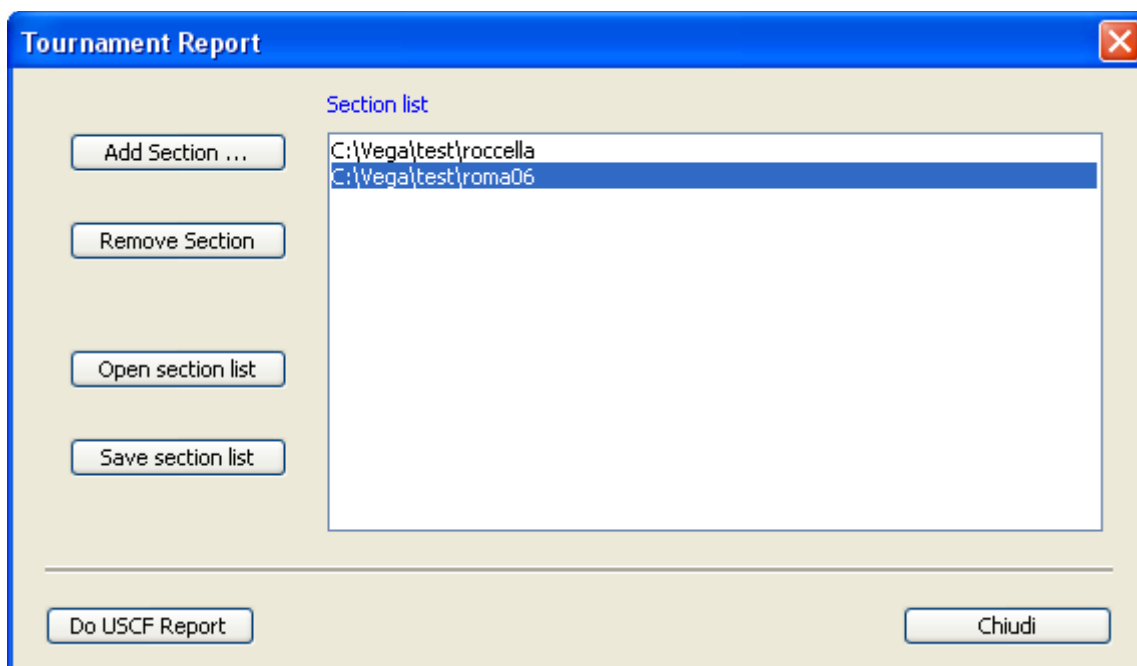


A new window will prompt the user for data relative to the **current section**. Some of this data is of course the defaults, so the user usually only needs to insert a few of them unknown to Vega (for example ID Chief TD, and so on. Please note that there are fields (Rounds, Number of Players, ...) that cannot be edited.



By pressing the button **Done** Vega generates the auxiliary file uscfscn.txt (it is tab delimited) in the working directory of the current section. This task must be done for each section.

Once all uscfscn.txt files are ready, the user should select the menu item **Tournament Report**:



**Add Section** selects the working directory of each section. To remove one of them the user should press the button **Remove Section**. In our example the tournament has two sections and the working directories are those listed in the right side of the previous window. To save the list use **Save section list**. To load it use **Open section list**. When finished, press the button **Do USCF Report**. The following window will appear:

As seen before, some of the data is already known to Vega, some cannot be edited and some needs to be inserted by the user. When all the fields are filled (otherwise Vega will not continue) the user can generate the USCF report by pressing the button **Done**. The required files in dbf format are in the directory signaled by Vega (the one belonging to the first section of the list).