

# PC software manual

# KES

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## **1. General information**

The KES-PC Software is a Windows program and it is recommended to run it in the following desktop or laptop computer (at least):

- Serial/USB - port
- Windows XP / Windows 7
- Minimum memory 2 GB

**Attention!** The Program needs Database program SQLEXPRESS 2008 to work properly.

## **2. How to install the KES software**

First Install SQL Express 2008 R2 database with tools.

KES program uses Microsoft SQL Express database to store and organize collected data and information. To run KES program the SQL Express have to been installed to PC.

To find database setup files, visit at the Microsoft Web site:

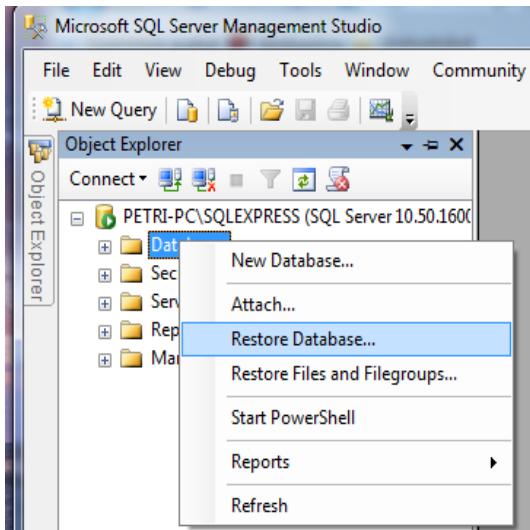
<http://www.microsoft.com/express/Database/>

SQL Express check in the beginning of installation necessary add-ons. Before these are installed on the PC, the SQL Express install will not continue. Mainly of these can be found in the Windows Update site.

After that SQL Express installation, run the “setup.exe” and follow the instructions on your screen. Don’t launch the program at the end of installation.

Before launching the KES program, restore the database from database backup file. Backup file can be found from directory “{install dir}/KedData”.

Tools for restoring database found in SQL Server Management Studio.

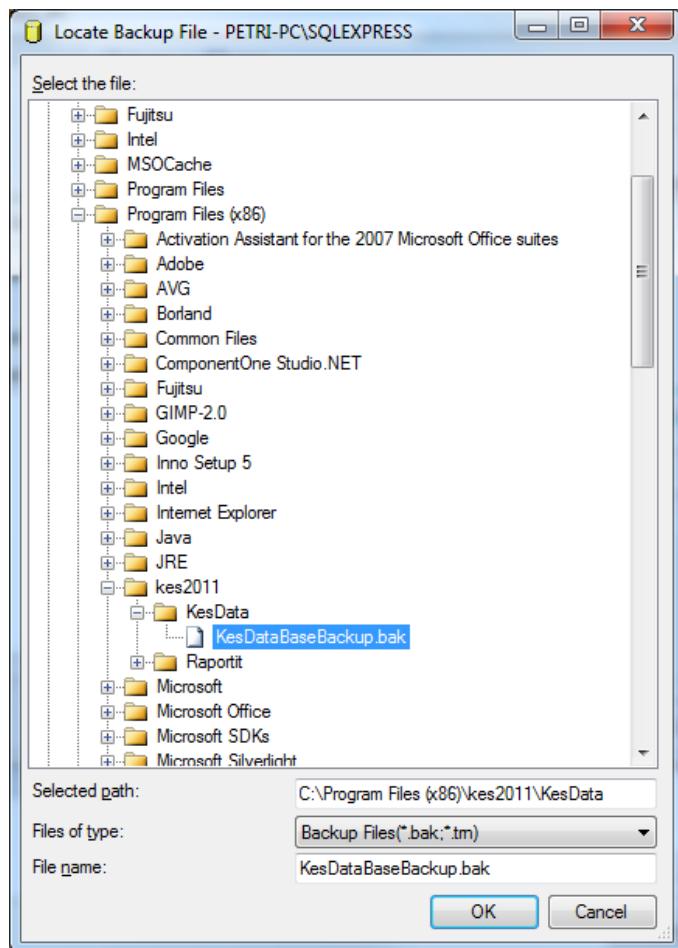


Picture 1. Starting Restore Database function.

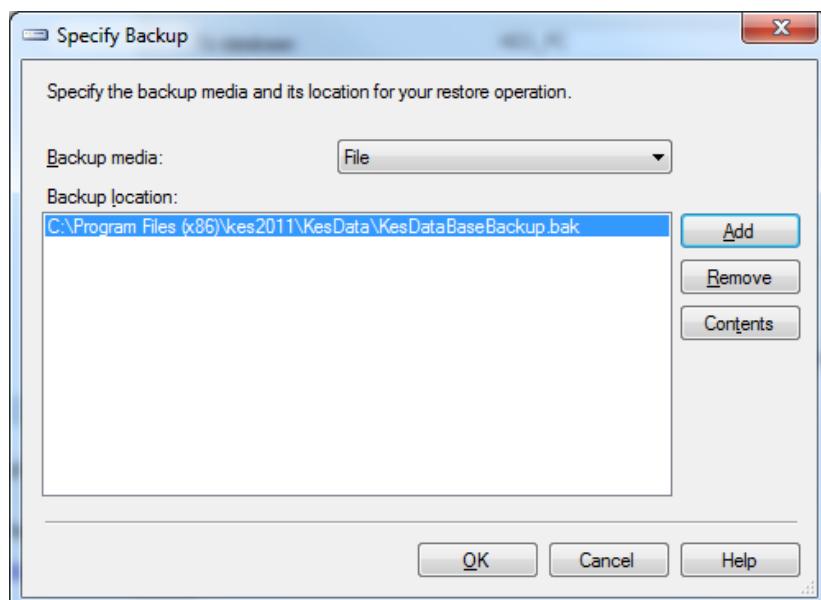
The setup program had been copied the database backup file to “{install dir}\KesData”.

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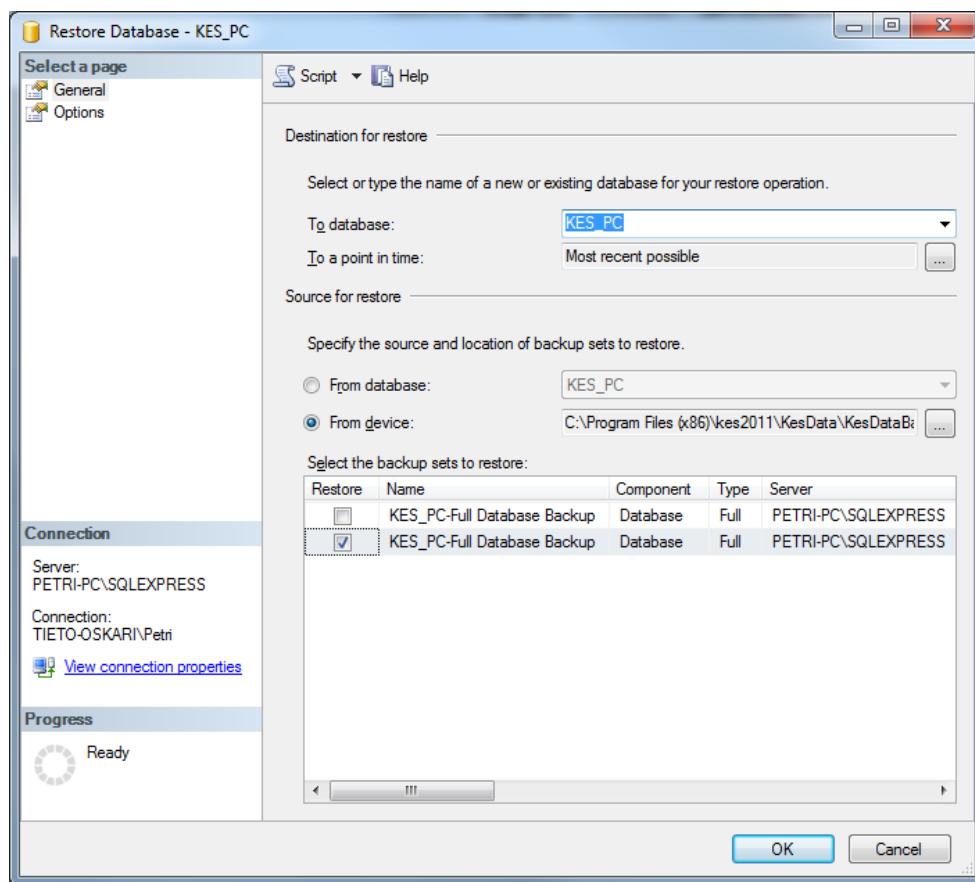
Picture 2. Select the location of backup file.



Picture 3. Press OK to select the Backup Location.

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Picture 4. Select the last one and start the restoring by pressing OK.

### **3. How to start the software**

**Attention!** When the program is started at first time, the connection string to database must be creating.

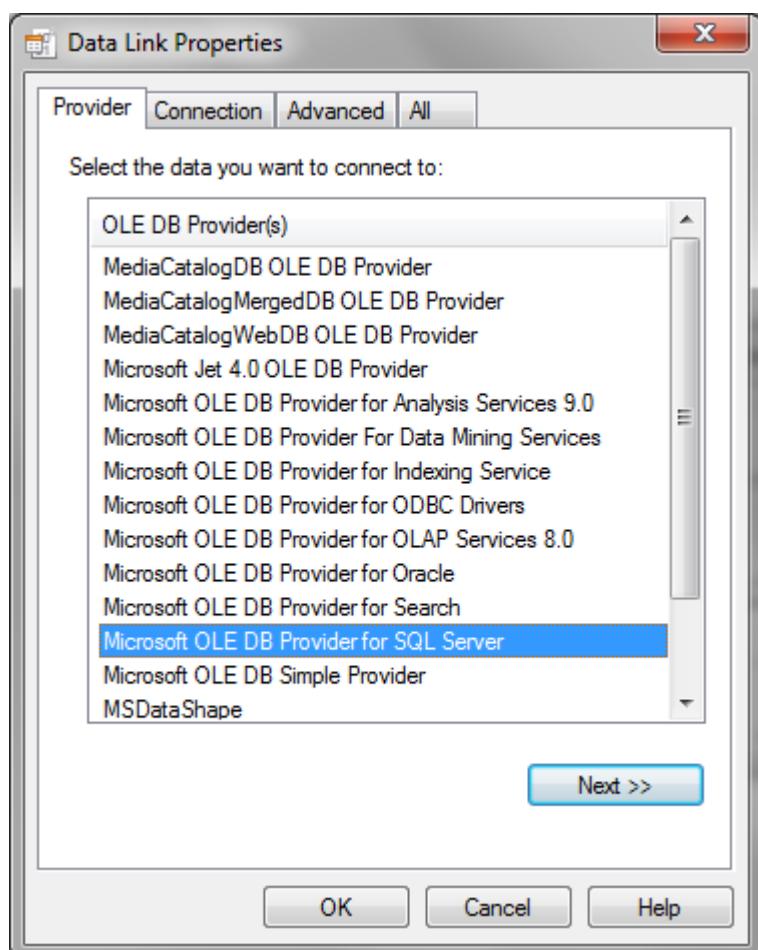


After the data base backup was restored successfully, the KES program can be started.

If the program is starting first time, the connection to the database has to setting up. Program opens dialog to configure the connection.

First the dialog ask type of database that will connected. The right selection is “Microsoft OLE DB Provider for SQL Server”

Then press Next button to continue.



Picture 5. Selection of the database provider

Dialog change to next tap sheet, named “Connection”

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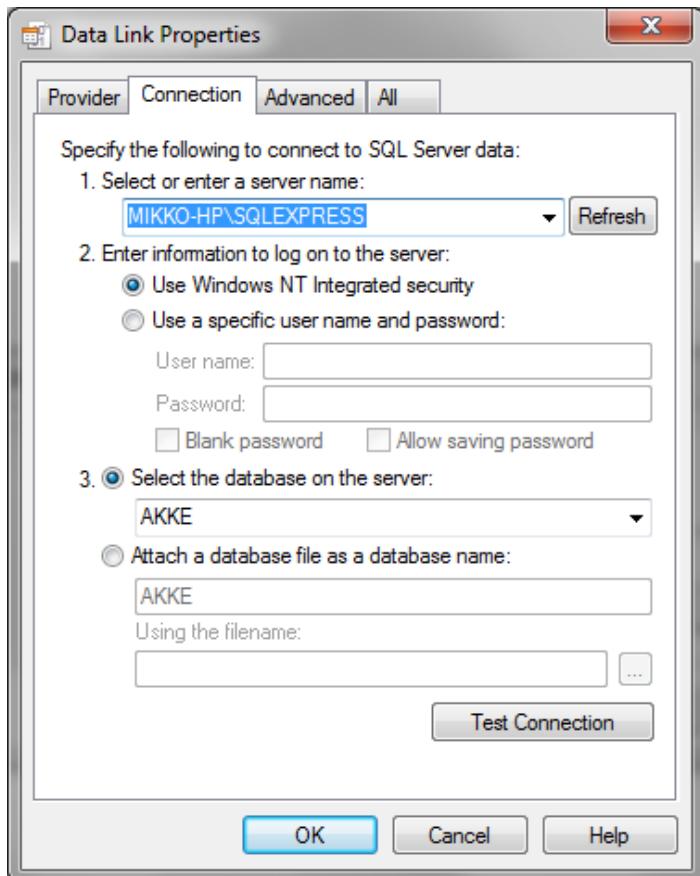
---

In this tap sheet at the first selection the database server name will be specified. The name of the server can be checked from SQL Server Management Studio.

The second selection is ‘Use Windows NT Integrated security’.

The third selection is the name of the database on the server. The Database name is KES\_PC.

After that the connection can be tested by clicking “Test Connection” button.

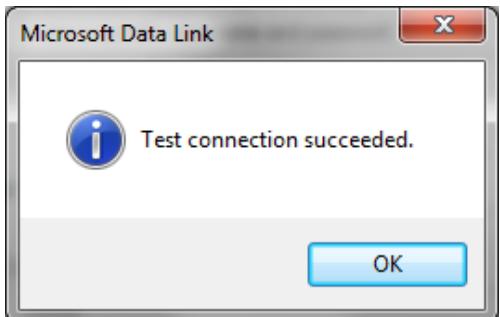


Picture 6. Define server name and database name.

If the connection is defined right, the program will open “Test connection succeeded” window.

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Picture 7. Connection defined successfully.

After the database connection has been set up once, the program will start normally selection window, where the event can be create or open.

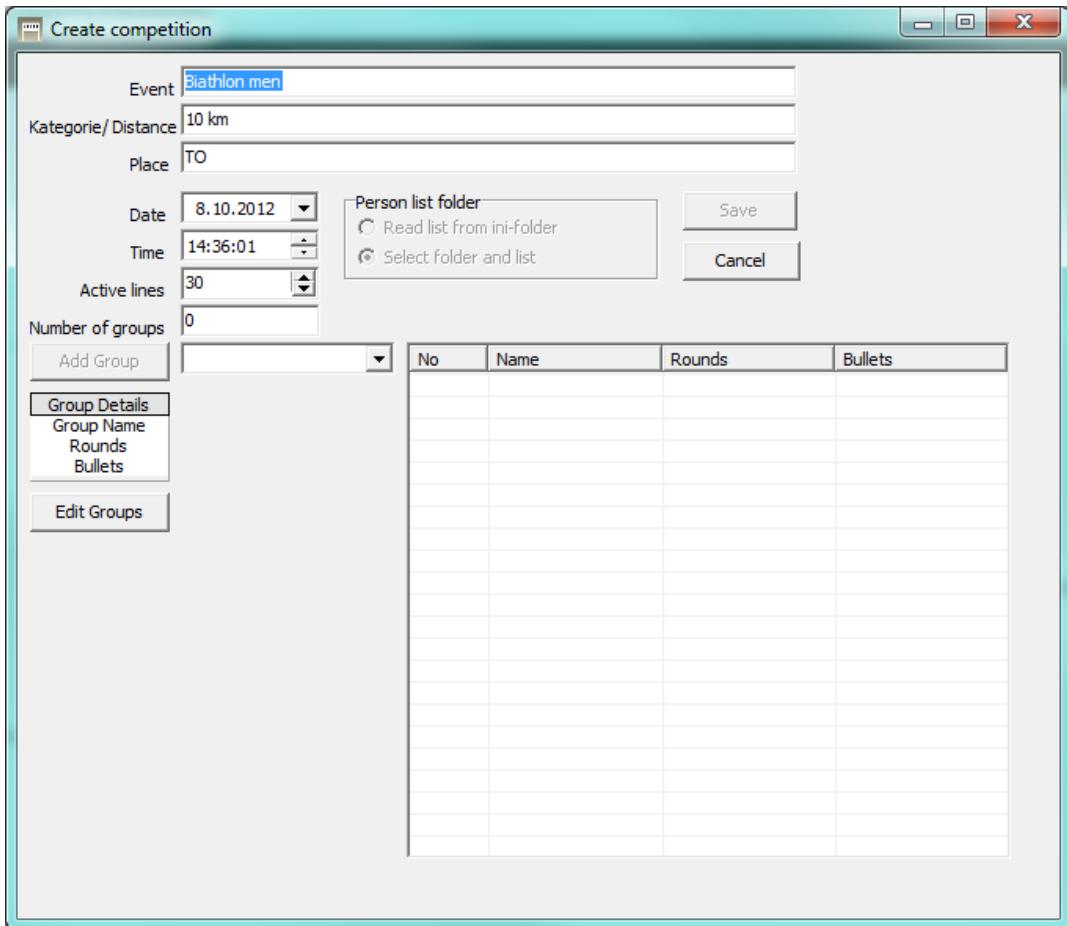


Picture 8. Start window.

Button "New" will open "Create competition" dialog. Button "Created" will open list of created events, and "Archive" button will open disabled, old events list. Load file button opens dialog to select saved \*.kes file. The file is saved configuration of created event.

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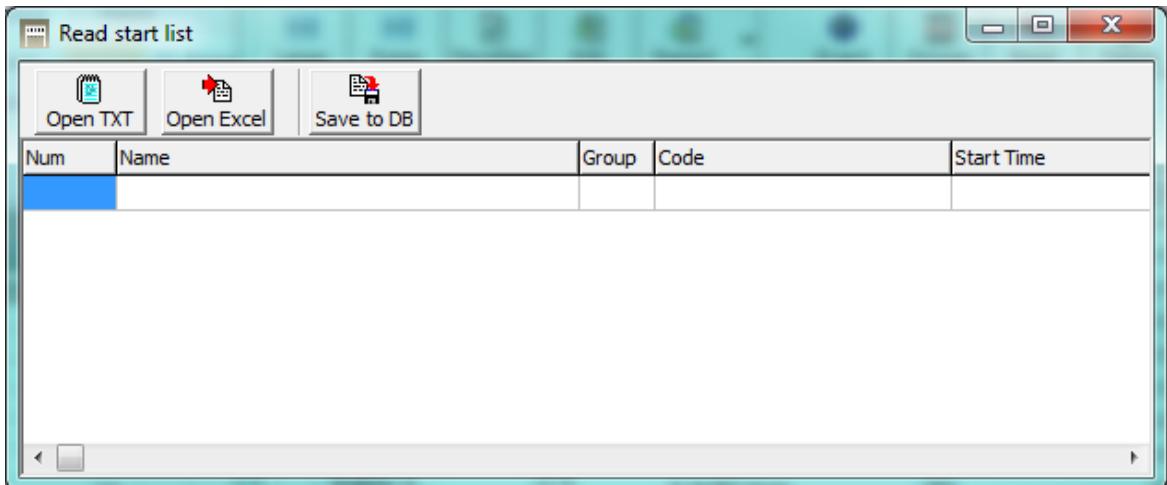


Picture 9. Window for creating new event.

The event must have at least one group. The group is added by pressing "Add Group" button after selecting it from combobox.

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Picture 10. Window to read start list from \*.txt file or excel file.

Peson list can be read from old program style \*.txt file definet location or user selectable text or excel file.

The KEC PC-program can use longer than tree marks Codes. The additional code can added to start list after semicolon. Example: **1 Shooter 1 0NAT 0:00;Finland**

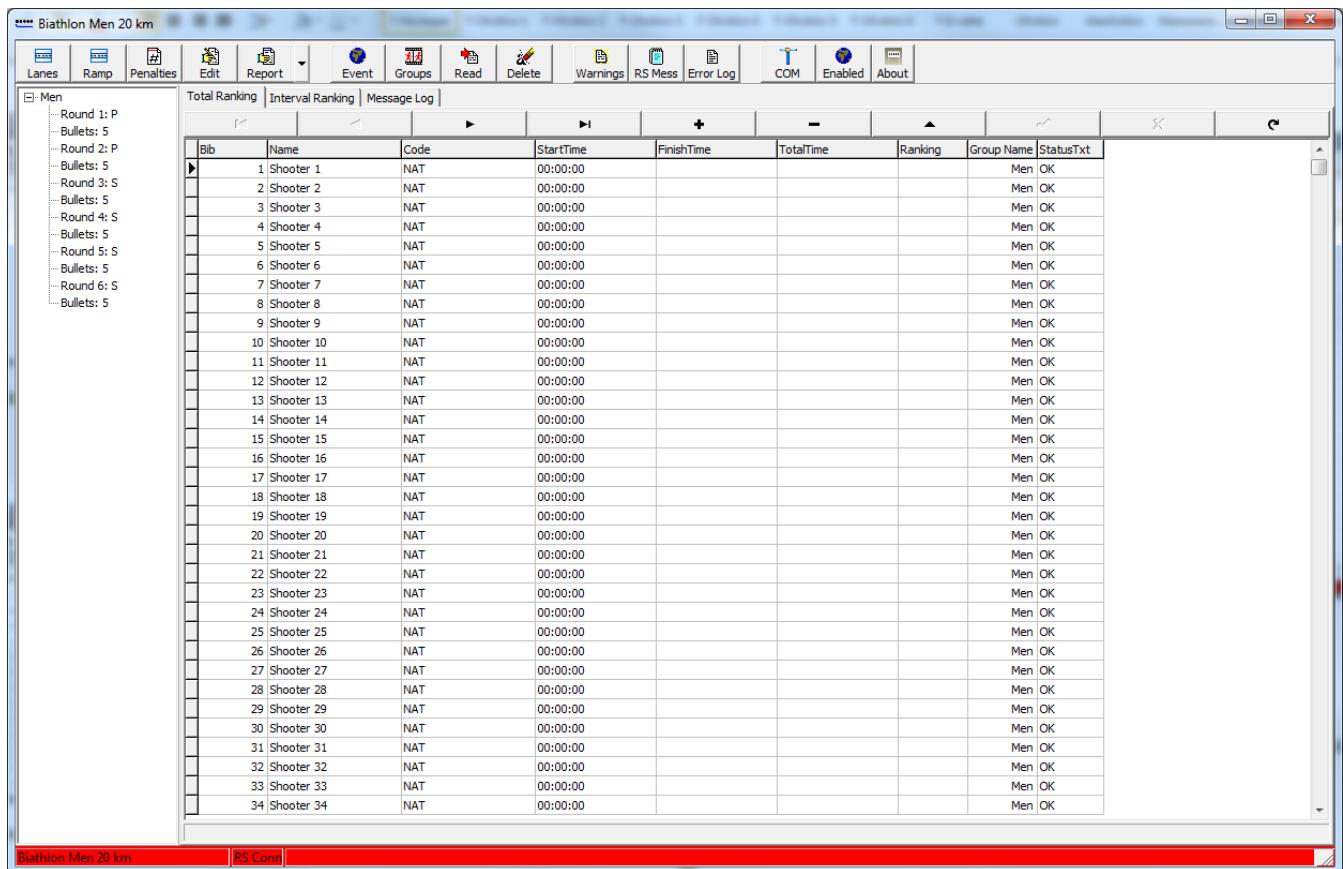
Num	Name	Group	Code	Start Time
1	Shooter 1	0	NAT	0:00:00
2	Shooter 2	0	NAT	0:00:00
3	Shooter 3	0	NAT	0:00:00
4	Shooter 4	0	NAT	0:00:00
5	Shooter 5	0	NAT	0:00:00
6	Shooter 6	0	NAT	0:00:00
7	Shooter 7	0	NAT	0:00:00
8	Shooter 8	0	NAT	0:00:00

Picture 11. Peson list after reading from file.

Save the list to the competition Database by clicking "Save To DB" button and then programs opens the Main window.

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Picture 12. Main window of the program.

In start window the "Created" button opens list of events.

EventID	Name	Date	Time	ROUNDS
118	UusKisa	2.3.2011 10:25:03	2.3.2011 10:25:03	0
119	Women 7,5km Sprint	3.12.2010	30.12.1899 17:20:00	0
121	IBU CUP BIATHLON WOMEN 7,5 KM SPRINT	29.11.2011	30.12.1899 15:10:00	8
122	TV-test SPRINT or somethink	29.11.2011	30.12.1899 18:00:00	225
123	IBU WORLD CUP BIATHLON MEN 20 KM INDIVIDUAL	30.11.2011	30.12.1899 17:15:00	411
124	IBU WORLD CUP BIATHLON WOMEN 15 KM INDIVIDUAL	1.12.2011	30.12.1899 17:15:00	372
125	IBU WORLD CUP BIATHLON test	2.12.2011	30.12.1899 11:01:00	0
126	IBU WORLD CUP BIATHLON MEN 10KM SPRINT	2.12.2011	30.12.1899 16:15:00	209
128	Women2 10km Pursuit	19.1.2011	30.12.1899 10:00:00	0
144	E.ON IBU World Cup Biathlon 10 Pursuit Men	13.12.2011	30.12.1899 12:59:00	66
155	Mc Men 20 km	29.1.2012	30.12.1899 12:00:00	72
171	Men2 10km Pursuit	5.12.2011	30.12.1899 11:30:00	0
172	My Pursuit Men 20 km	5.4.2012	30.12.1899 10:08:00	4
203	Biathlon Men 20 km	29.5.2012	30.12.1899 9:52:00	0

Picture 13. Select event window.

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In that window, the active competition can be selected. Select the competition name and then push “Select” button.

The active competition will open. Competitors of first group can be seen in right part of window and group selection can be seen in left part of window.

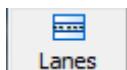
Bib	Name	Code	StartTime	FinishTime	TotalTime	Ranking	Group Name	StatusTxt
1	BYCHENOK Alexey	RUS	07:32:30				Men	OK
2	HALSTED Sean	USA	07:33:00				Men	OK
3	FRAZIER Eric	USA	07:33:30				Men	OK
4	SHILOV Sergey	RUS	07:34:00				Men	OK
5	FLEIG Martin	GER	07:34:30				Men	OK
6	GONCHAROV Ivan	RUS	07:35:00				Men	OK
7	DODSON Travis	USA	07:35:30				Men	OK
8	LARSEN Trygve Steina	NOR	07:36:00				Men	OK
9	KUBO Kozo	JPN	07:36:30				Men	OK
10	ZARIPOV Irik	RUS	07:37:00				Men	OK
21	PARKS Sarah	USA	07:37:30				Junior	OK
22	YAROSHEVICH Svetlana	RUS	07:38:00				Junior	OK
23	ZAYNULINA Merta	RUS	07:38:30				Junior	OK
24	ESKAU Andrea	GER	07:39:00				Junior	OK
31	KARACHURIN Azat	RUS	07:39:30				Junior	OK
32	SLINKIN Mikhail	RUS	07:40:00				Junior	OK
33	IAREMCHUK Aleksandr	RUS	07:40:30				Junior	OK
34	ARENDS Mark	CAN	07:41:00				Junior	OK
35	DAROVSKIY Valery	RUS	07:41:30				Junior	OK
36	UHLIG Tino	GER	07:42:00				Junior	OK
37	BALUKHTO Oleg	RUS	07:42:30				Junior	OK
38	SATO Keiichi	JPN	07:43:00				Junior	OK
39	KOLOZEROV Ivan	RUS	07:43:30				Junior	OK
40	LEKOMTSEV Vladislav	RUS	07:44:00				Junior	OK
41	MIRKHAYLOV Kirill	RUS	07:44:30				Junior	OK
42	EDUMAKOV Evgeny	RUS	07:45:00				Junior	OK

Picture 14. Main page of competition

In main window it can be seen start list. Monitoring of shooting events can be done with “Lanes” and “Ramp” windows. These windows are used to follow the shooting at the lanes. There can be seen the whole shooting event in real time:

- Shooter arrives to the lane
- Shooter starts the shooting
- Shoot results
- Previous penalties
- Round number

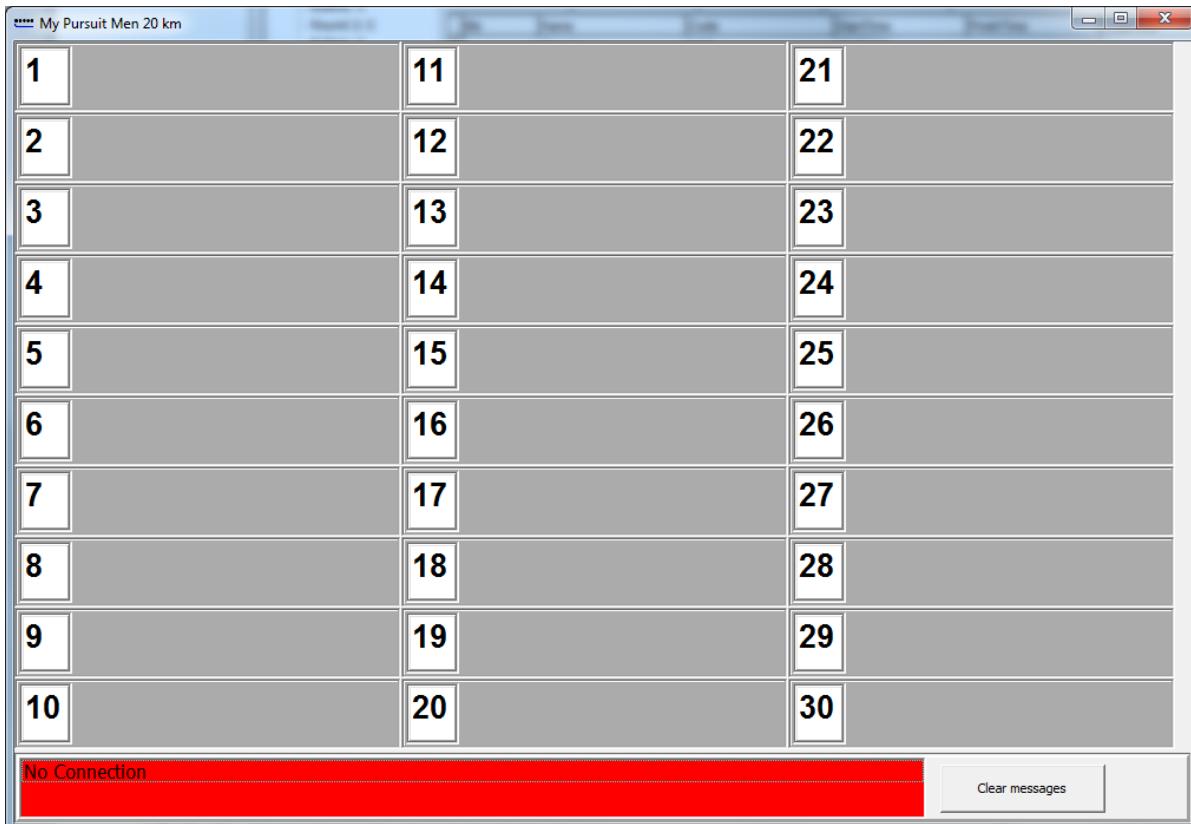
Please see the chapter 9 for more detailed information.



Tool button: opens “Lanes” view.

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Picture 15. The active lines can be seen in “Lanes” window.



Tool button: **Ramp** opens targets view to monitoring shooting event without person names.

With “Lane” and “Ramp” window opens the “Penalties” window. It can be opened



separately with tool button: **Penalties**. See the chapter 9.1 for more detailed information.

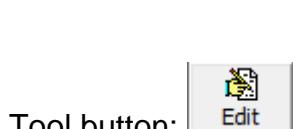
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Num	LA	12345678	Num	LA	12345678	Num	LA	12345678
1			61			121		
2			62			122		
3			63			123		
4			64			124		
5			65			125		
6			66			126		
7			67			127		
8			68			128		
9			69			129		
10			70			130		
11			71			131		
12			72			132		
13			73			133		
14			74			134		
15			75			135		
16			76			136		
17			77			137		
18			78			138		
19			79			139		
20			80			140		
21			81			141		
22			82			142		
23			83			143		
24			84			144		
25			85			145		
26			86			146		
27			87			147		
28			88			148		
29			89			149		
30			90			150		
31			91			151		
32			92			152		
33			93			153		
34			94			154		
35			95			155		
36			96			156		
37			97			157		
38			98			158		
39			99			159		
40			100			160		
41			101			161		
42			102			162		
43			103			163		
44			104			164		
45			105			165		
46			106			166		
47			107			167		
48			108			168		
49			109			169		
50			110			170		
51			111			171		
52			112			172		
53			113			173		
54			114			174		
55			115			175		
56			116			176		
57			117			177		
58			118			178		
59			119			179		
60			120			180		

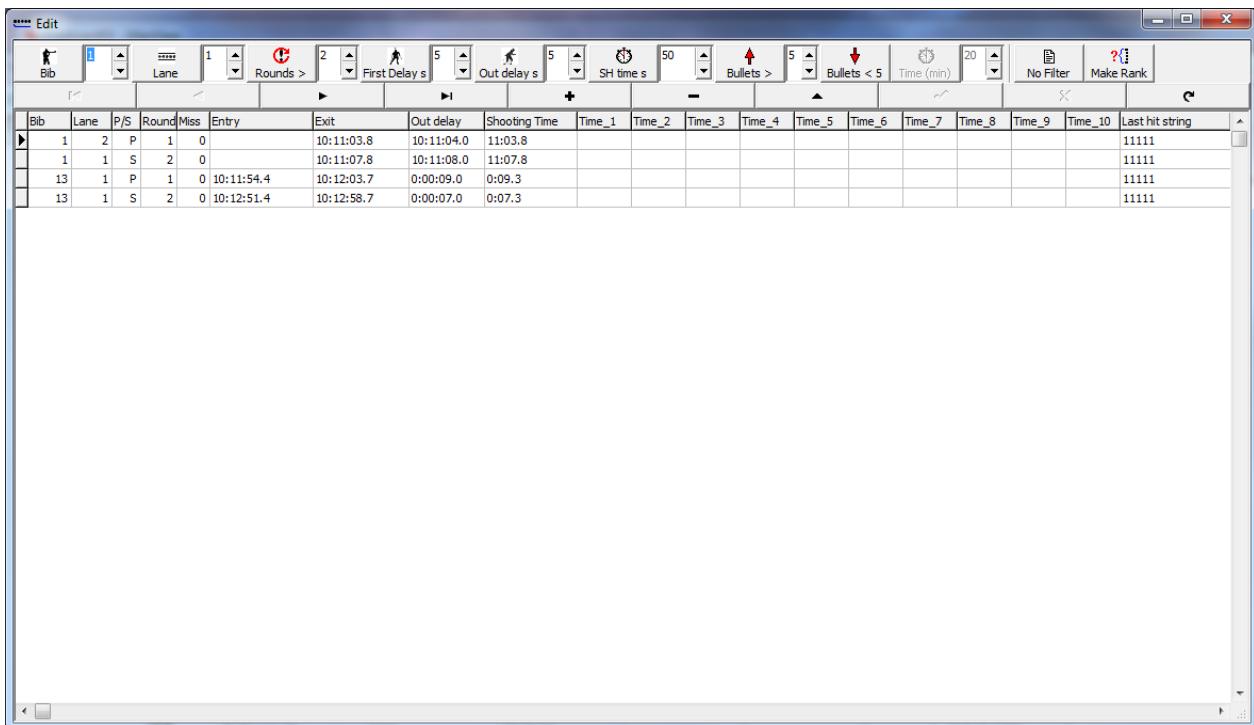
Picture 16. Penalties window.



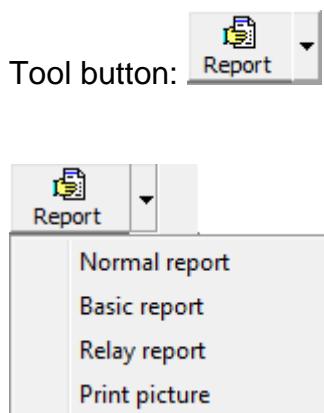
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This button opens editing window. There can be filtered competitions data to find out miss records in data. Please see the chapter 10 for more information.



Picture 17. Edit records window.



Picture 18. report options

Normal report shows Shooting times and run times.

Basic report shows only shooting times.

Relay report shows times for eight shots.

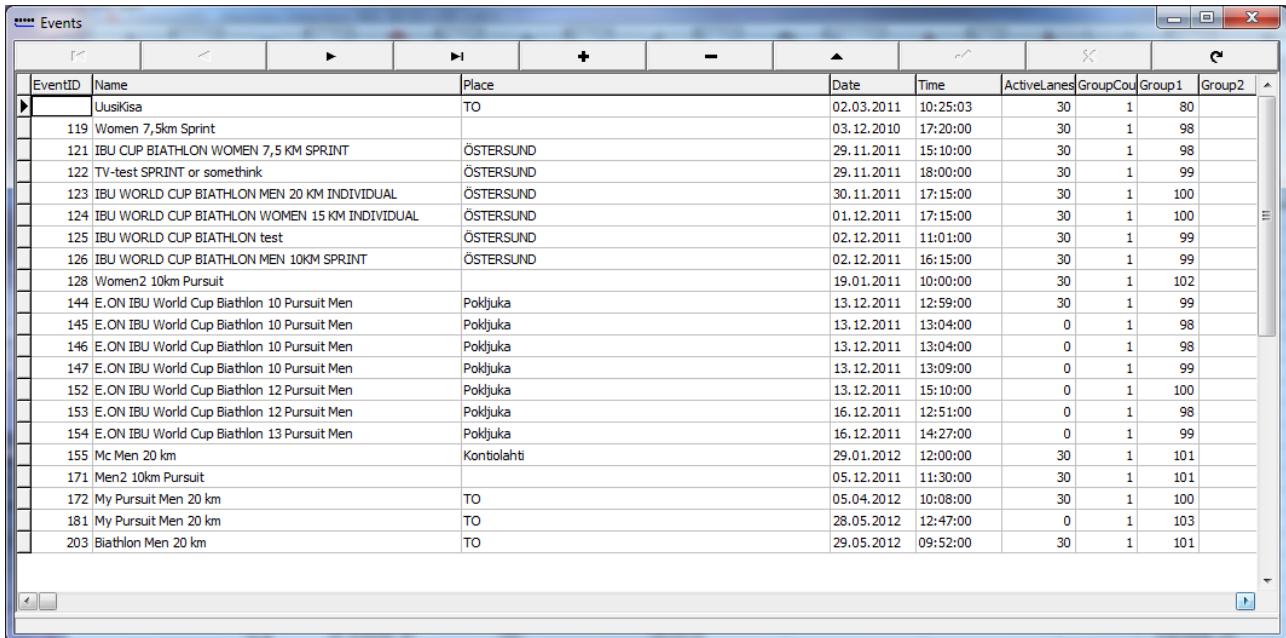
Print picture options make possible to change the lower banner picture.



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Event tool button opens the list of created competitions. In the list window all competitions can be edited by user. It is recommended restarting the program if the active competition was edited.



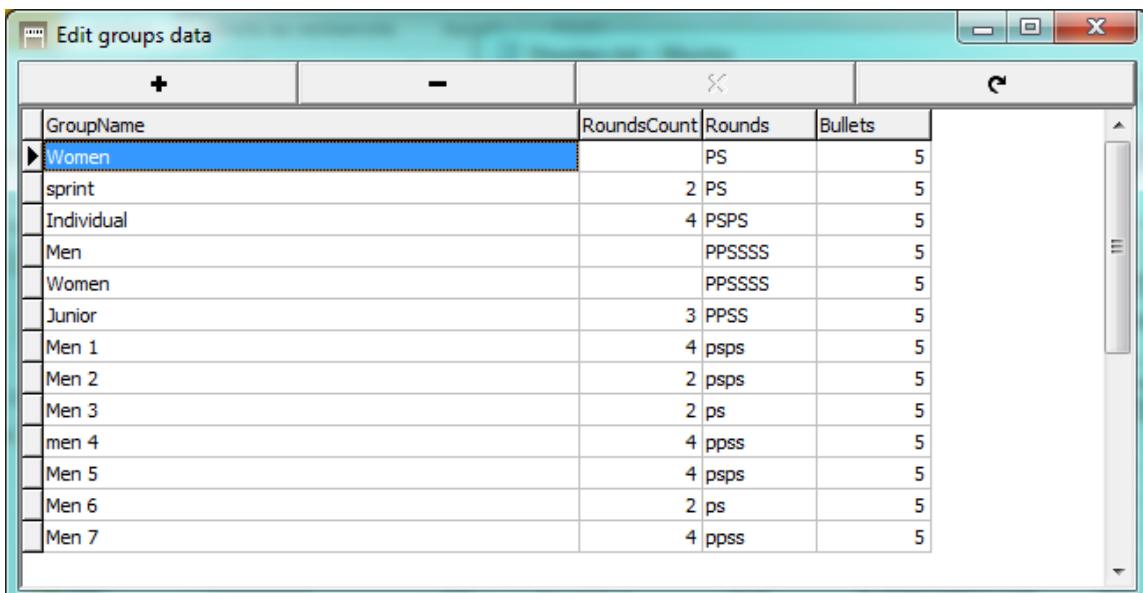
The screenshot shows a Windows application window titled "Events". The window contains a table with the following columns: EventID, Name, Place, Date, Time, ActiveLanes, GroupCount, Group1, and Group2. The data in the table is as follows:

EventID	Name	Place	Date	Time	ActiveLanes	GroupCount	Group1	Group2
119	Women 7,5km Sprint	TO	02.03.2011	10:25:03	30	1	80	
121	IBU CUP BIATHLON WOMEN 7,5 KM SPRINT	ÖSTERSUND	03.12.2010	17:20:00	30	1	98	
122	TV-test SPRINT or somethink	ÖSTERSUND	29.11.2011	15:10:00	30	1	98	
123	IBU WORLD CUP BIATHLON MEN 20 KM INDIVIDUAL	ÖSTERSUND	29.11.2011	18:00:00	30	1	99	
124	IBU WORLD CUP BIATHLON WOMEN 15 KM INDIVIDUAL	ÖSTERSUND	01.12.2011	17:15:00	30	1	100	
125	IBU WORLD CUP BIATHLON test	ÖSTERSUND	02.12.2011	11:01:00	30	1	99	
126	IBU WORLD CUP BIATHLON MEN 10KM SPRINT	ÖSTERSUND	02.12.2011	16:15:00	30	1	99	
128	Women2 10km Pursuit		19.01.2011	10:00:00	30	1	102	
144	E.ON IBU World Cup Biathlon 10 Pursuit Men	Pokjuka	13.12.2011	12:59:00	30	1	99	
145	E.ON IBU World Cup Biathlon 10 Pursuit Men	Pokjuka	13.12.2011	13:04:00	0	1	98	
146	E.ON IBU World Cup Biathlon 10 Pursuit Men	Pokjuka	13.12.2011	13:04:00	0	1	98	
147	E.ON IBU World Cup Biathlon 10 Pursuit Men	Pokjuka	13.12.2011	13:09:00	0	1	99	
152	E.ON IBU World Cup Biathlon 12 Pursuit Men	Pokjuka	13.12.2011	15:10:00	0	1	100	
153	E.ON IBU World Cup Biathlon 12 Pursuit Men	Pokjuka	16.12.2011	12:51:00	0	1	98	
154	E.ON IBU World Cup Biathlon 13 Pursuit Men	Pokjuka	16.12.2011	14:27:00	0	1	99	
155	Mc Men 20 km	Kontiolahti	29.01.2012	12:00:00	30	1	101	
171	Men2 10km Pursuit		05.12.2011	11:30:00	30	1	101	
172	My Pursuit Men 20 km	TO	05.04.2012	10:08:00	30	1	100	
181	My Pursuit Men 20 km	TO	28.05.2012	12:47:00	0	1	103	
203	Biathlon Men 20 km	TO	29.05.2012	09:52:00	30	1	101	

Picture 19. Competition list of created events.



Groups button:  opens group edit window.



The screenshot shows a Windows application window titled "Edit groups data". The window contains a table with the following columns: GroupName, RoundsCount, Rounds, and Bullets. The data in the table is as follows:

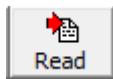
GroupName	RoundsCount	Rounds	Bullets
Women	PS		5
sprint	2 PS		5
Individual	4 PSPS		5
Men	PPSSSS		5
Women	PPSSSS		5
Junior	3 PPSS		5
Men 1	4 psp		5
Men 2	2 psp		5
Men 3	2 ps		5
men 4	4 ppss		5
Men 5	4 psp		5
Men 6	2 ps		5
Men 7	4 ppss		5

Picture 20. Edit all groups window.

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Tool button:

Read

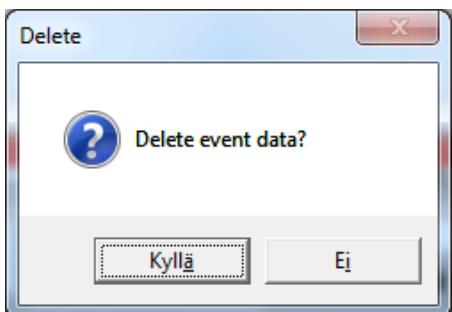
Opens window to read start/person list from \*.txt or excel file.



Tool button:

Delete

Button enables to delete recorded data and name list from current event.



Picture 21. delete event data dialog.



Tool button:

Save

The data of the event can be saved to \*.kes file. The file for example can be used to create duplicate event to another computer.



Tool button:

Warnings

This button opens a warnings log. The warnings log automatically saved to "{install dir}/logData" directory when programs closed.



Tool button:

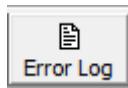
RS Mess

This button opens message log. The message log automatically saved to "{install dir}/logData" directory when programs closed.

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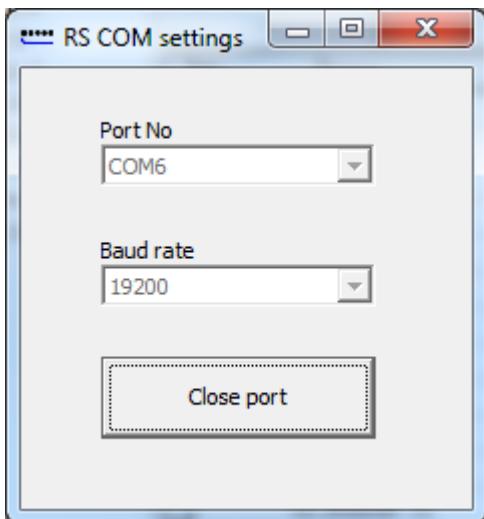


Tool button:

This button opens error log. The error log automatically saved to “{install dir}/logData” directory when programs closed.



Tool button: opens com port and baud rate settings.

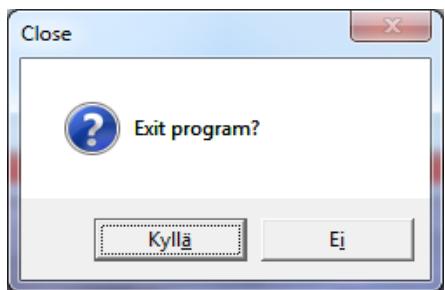


Picture 22. Communication port and baud rate settings.

If these settings remaining same, the user need to confiure them only once. The programs remember previous setting, and try to use them again.

## 4. How the software finished

The software can be closed only in main window close button. Before the program were closet user must accept the closing event.



Picture 23. Exit program dialog.

## **5. How the competitions configured**

### **5.1. Using initialize file: COMP.INI**

You can configure the competitions by editing the software's Initializing file. The file is located in the following path:

**{Install dir}\KesData\Comp.ini**

The file can be edited for example in the Notepad or Word Pad editor.

For example we have the following competitions,

Day 1, Biathlon Competition 1999:

- March 27<sup>th</sup> 1999, at 12 aclock
- 1 group: Men 12,5km
- 3 rounds
- 1<sup>st</sup> round Prone, 2<sup>nd</sup> round Stand and 3<sup>rd</sup> round Prone
- 5 shots per round (no spare bullets)
- Shooter's names are found in floppy disk. Filename is MEN125.TXT

Day 2, Biathlon Competition 1999:

- March 28<sup>th</sup> 1999, at 11 a clock
- 2 groups: Men and Women
- Group 1: 3 rounds
- Group 2: 2 rounds
- Group 1: 1<sup>st</sup> round Prone, 2<sup>nd</sup> round Stand and 3<sup>rd</sup> Prone
- Group2: 1<sup>st</sup> round Stand and 2<sup>nd</sup> round Prone
- Group 1 & 2: 8 Shots per round (3 spare bullets)
- Shooter's names are found in the hard disk. File name is SHOOTERS.TXT

Here is the file layout:

```
-----
Competition=Biathlon Competition Day 1
Date=19990327
Time=1200

Group=Men
Rounds=PSP
Shots=5

Complist=a:\men125.txt
-----
Competition=Biathlon Competition Day 2
```

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Date=19990328  
Time=1100

Group=Men  
Rounds=PSP  
Shots=8

Group=Men  
Rounds=SP  
Shots=8

CompList=c:\shooters.txt

---

So, each competition is defined between the "dash" lines as follows,

Item	Description
Competition=	The name of the competition
Date=	Starting date of the competition: YYYYMMDD Y = year M = month D = day
Time=	Starting time of the competition: HHMM H = hour M = minutes
Group=	Group name.
Round=	Number and type of the rounds for this group P=Prone S=Stand for example: PSP means 3 rounds (Prone, Stand, Prone)
Shots=	Number of shots per round
CompList=	File name where the shooter's names are defined in the normal file path format (more info at 5.2).

**Attention!** To activate the changes in the **comp.ini** file you must restart the software.



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### 5.2. Shooter's names file

The shooters for the competition are defined in the shooter's names file. It is an **ASCII** file located in the hard or floppy disk. There is **an example file** located in the following file path:

C:\KES\EServer\kes.txt

Here is the file layout:

1 T Clemens	0GBR
2 J Teela	0USA
3 J Maric	0SLO
4 R Neuner	0AUT
5 I Tagscherer	0HUN
6 R Lysenko	0UKR
7 G Rupertus	0CAN
8 K Topor	0POL
9 L Barila	0LTU
10 S Sekiya	1JPN
11 J Nakums	1LAT
12 M Nilsson	1SWE
13 Z Vitek	1CZE
14 I Tobreluts	1EST
15 D Bjørndalen	1NOR
16 D Gieck	1USA
17 W Kozub	1POL

The information is represented in 1 name / line basis. The one line consist of 4-6 fields (Start time and additional code are optional data):

- **Number** (column 1, lenght 3). **Range: 1..999**
- **Name** (column 5, lenght 21)
- **Group number** (column 27, lenght 2). **Range 0..19**
- **Country code** (column 29, length 3)
- **Start time**(column 33, length 4-6)
- **Additional code** (column >30, starts with ; and length 1-16)

**Attention!** Be sure that the fields are starting exactly at the right position.



To edit this file start the **NotePad** text editor found in the Windows's **Start/Programs/Accessories** menu and open the file for editing.

If other than ascii character encoding is needed in shooters list, it has to be use 8-bit character encoding. For example with a Cyrillic alphabet it has to use KOI8-R, Windows-1251 or other 8-bit character encodings.

To be able to use the Cyrillic alphabet by Kes-program (Win7):

Choose:

-> Control Panel

-> Clock, Language, and Regional Options

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-> Region and Language  
Select the tab "Management"

See "Non-Unicode programs", click on  
"Change the system language"

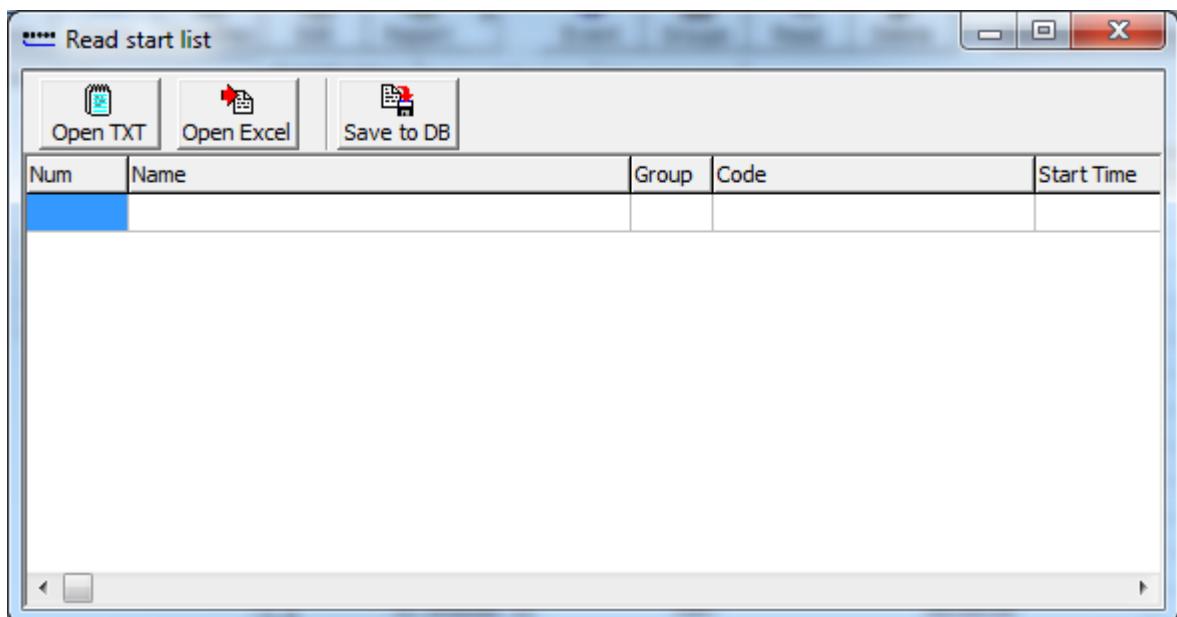
-> Select "Russia"

Reboot the machine.

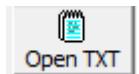
### 5.3. Re open shooters list



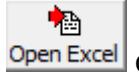
Select tool button **Read** from tool bar of the main window to open procedure for reading person list from excel worksheet.



Picture 24. Read start list window.



Tool button: **Open TXT** opens file open dialog for choosing \*.txt file to open.



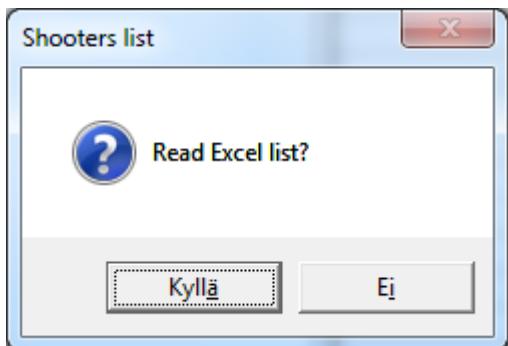
Tool button: **Open Excel** opens same dialog but it is specified to open excel file.

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After the file was chosen, the program opens the excel window and message box.

With message box user can accept the reading of the shooters list from selected excel file.



Picture 25.

After the shooters list was read to the program, the list can be checked. If there are no

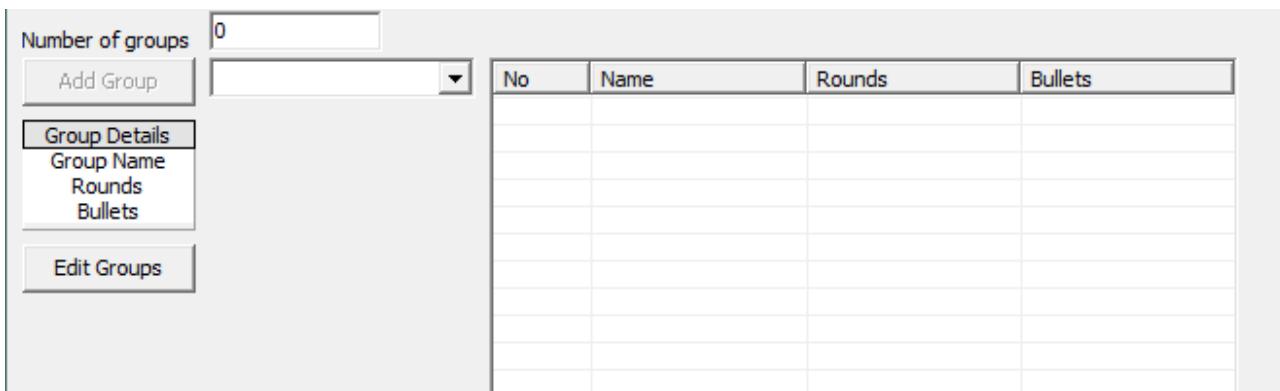
error in the list, it can be saved by pushing the tool button  Save to DB. Then the programs opens the main window.

## 6. How to start the competition

The program shows and records only one event data at once. The user can create the event right before start or earlier. Earlier created event can be chosen from event list which are opened from the programs start window with “Created” button.

New competition can be created by choosing “New” button in start window. The Events data will be defined in “Create Competition” window.

At least one group have to add to competition. User can select already defined group or open “Edit Group” window (picture 20) to create new group/groups to choose. Groups can be chosen from combo box and the by pressing “Add Group” it added to the event.



Picture 26. Add Groups

After the events data were saved, the start list will be read. The program opens the “Read start list” window (picture 10). Start list can be \*.txt file or excel file.

When start list are saved to data base, the program opens main window and it is ready to record new data.

If there are any training data on the competition, it could be deleted by clicking the tool

button and confirm it in Yes/No dialog. Anyhow it is recommended that the new competition will be started without any training data.

## **7. How to end the competition**

There is no any special action to end the competition.

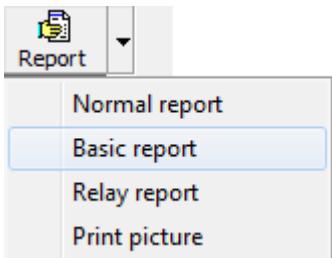


By pressing the tool button down the com port will be disabled. If the program will shut down with com port disabled, current event automatically moved to the archive event list.

## 8. How to generate the result report to the printer or PDF file

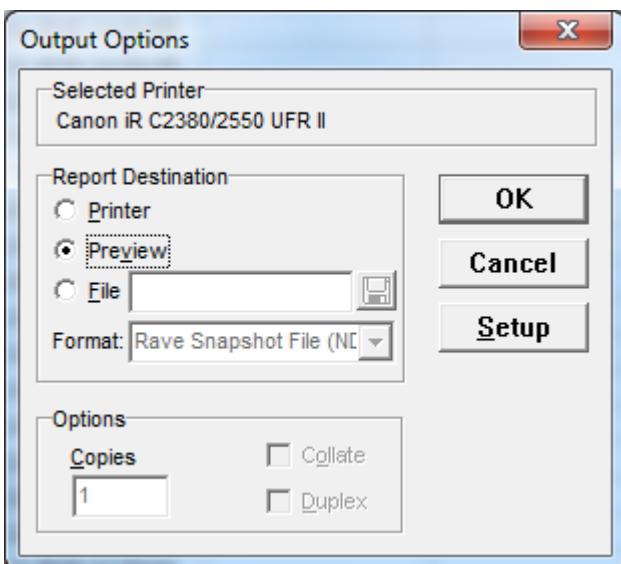


By clicking tool button user can open basic report preview. Other reports options are seen by opening the drop down menu.



Picture 27. report options

After choosing the right report options the program ask output options. It is possible to preview, print or generate PDF file from report.



Picture 28. report output options window.

If there are shooters that did not start or did not finished they could remove from report by setting status from person list to DNF or DNS.

Reports pages do not support other than latin character encoding. To get Cyrillic character encoding support there is \*.rav files named with "\_cyrillic" in "/Kes/Raportit" folder.

Rename original \*.rav file with "\_latin" extension and rename these Cyrillic files as original \*.rav file name.

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The screenshot shows the KES PC software interface for a Men's 10km Pursuit race. The main window displays a ranking table with columns for Bib, Name, Code, StartTime, FinishTime, TotalTime, Ranking, Group Name, and StatusTxt. The table lists 11 participants, with Boe Tarjei currently selected. The status for Boe Tarjei is set to DNF (Did Not Finish). Other participants listed include Fourcade Simon, Bauer Klemen, Os Alexander, Bergman Carl Johan, Svendsen Emil Hegle, Makoveev Andrey, Semakov Vladimir, Greis Michael, Bricis Illmars, and Priit Viks. The software interface includes a toolbar at the top with various icons for Lanes, Ramp, Misses, Edit, Report, Event, Groups, Read, Delete, Warnings, RS Mess, Error Log, COM, Enabled, and About.

Bib	Name	Code	StartTime	FinishTime	TotalTime	Ranking	Group Name	StatusTxt
1	Fourcade Simon		11:30:00				Men	OK
2	Bauer Klemen		11:30:43				Men	OK
3	Os Alexander		11:31:16				Men	OK
I	Boe Tarjei		11:31:16				Men	DNF
5	Bergman Carl Johan		11:31:41				Men	DNS
6	Svendsen Emil Hegle		11:31:42				Men	OK
7	Makoveev Andrey		11:32:00				Men	ERROR
8	Semakov Vladimir		11:32:12				Men	
9	Greis Michael		11:32:27				Men	
10	Bricis Illmars		11:32:35				Men	OK
11	Priit Viks		11:32:47				Men	OK

Picture 29. Change the shooter status.

## 9. Monitoring shooting events

Lane's window is used to monitor the shooting events. User can see the actions of shooting event in real time:

- Shooter arrives to the lane (line number background is yellow)
- Shooter starts the shooting (bib number and shooter name is shown)
- Shoot misses
- Round number
- Previous misses
- Shooters leave from shooting line ( line and name background is black)

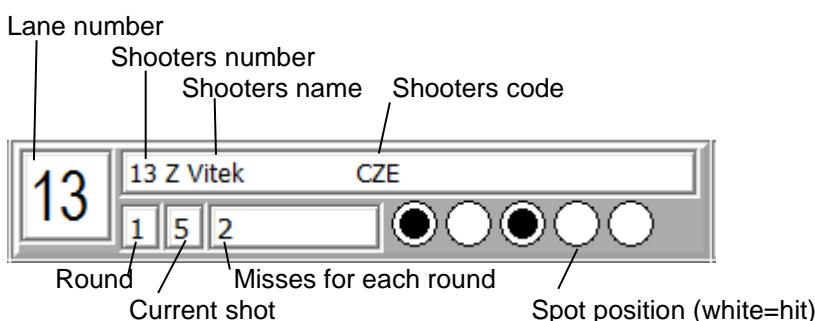


Picture 30. Lane view.

The colors and their means are as follows,

- Yellow:** Shooter just entered the lane  
**White:** Shooter is shooting  
**Black:** Shooting is done and shooter is leaving/left the place.  
**Red:** Red lane number means possible problems with the shooter information (C key pressed at the lane keyboard).  
**Blinking Red:** There is some warning in that lane.

The lane information is represented as follows,



Picture 31. In this example the shooter is shooting the 1<sup>st</sup> round. The misses for the current round are two and five bullets have been shot.

For example:

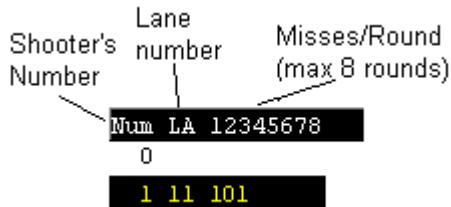
Shooter is shooting his 3<sup>rd</sup> round (he is shooting the 4<sup>th</sup> shot) and he has missed 3 spots on 1<sup>st</sup> round, 2 spots on the 2<sup>nd</sup> round and zero on the 3<sup>rd</sup> round.

3 4 320

### **9.1. Shooter's penalties window**

In this window you can see shooter's penalties' information recorded by the system.

Shooters penalties' information is represented as follows,



A screenshot of a computer window titled "Penalties". The window contains a table with two columns: "Num" and "LA". The "Num" column lists integers from 1 to 25. The "LA" column lists lane numbers, with "1" highlighted in white on a black background, indicating it is the active lane. The table has a light gray background and thin black borders between the cells.

Num	LA
1	1
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Picture 32. Penalties window

The white text on the black background means currently active lane. The lane

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Number is shown only when the lane is active.

In the above example we have shooter 1 shooting on the lane number 11 and he has shot 1 miss on the 1<sup>st</sup> round, no misses on the 2<sup>nd</sup> round and 1 miss on the 3<sup>rd</sup> round.

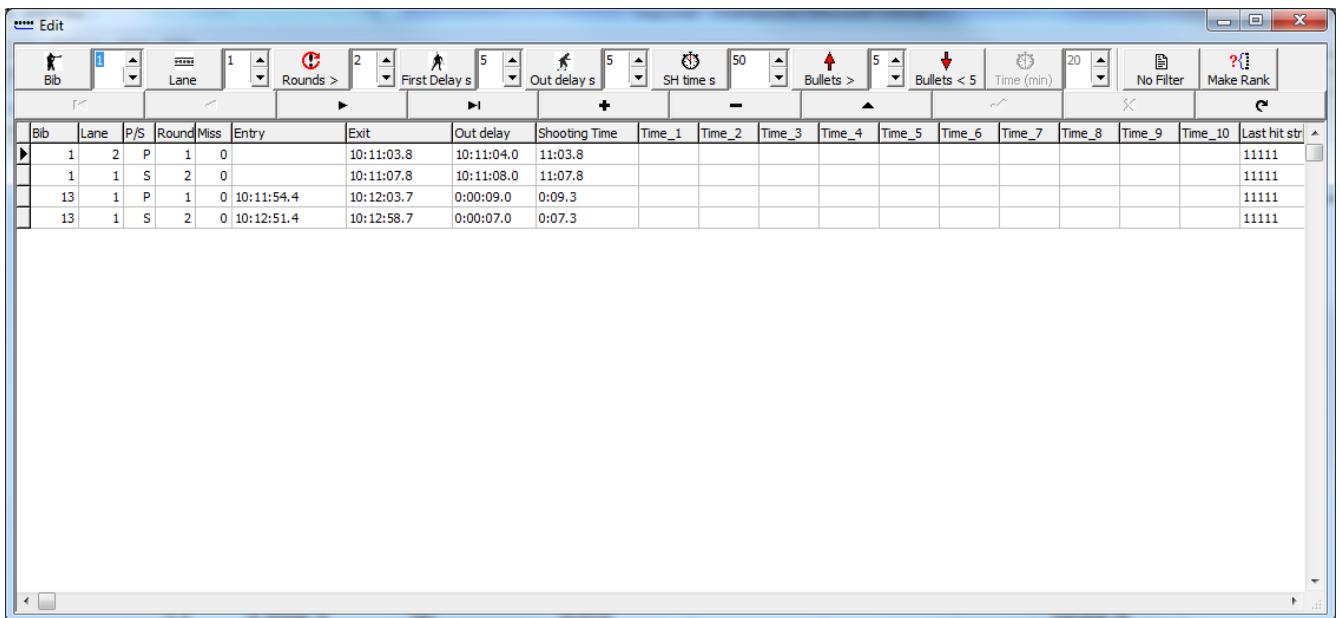
### ***9.2. Recorded data from one Lane or on bib number***

In “Lane” window the double clicking the lane panel opens all shooting events from current line.

In “Penalties” window the double clicking the bib number opens all shooting events of that bib.

## 10. Prepare shooters data to report

Tool button  opens edit window. That window shows all recorded shooting events.



Print 33. Edit window.

Clicking tool button  user selects to shown only one bib number events.

Clicking tool button  user selects to shown only one lane shooting events.

Clicking tool button  user can select to shown all shooting event where round count is greater than selected.

Clicking tool button  user selects shooting events, where the first shooting time is lower than selected number.

Clicking tool button  user can start the program calculating the time between last shot and leave button pressed. And then programs shows shooting events where the calculated time is greater than selected time (seconds).

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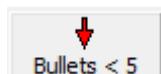
Clicking tool button user can start the program calculating the time between last shot and leave button pressed. And then programs shows shooting events where the calculated time is greater than selected time (seconds).



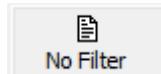
Clicking tool button user selects to shown shooting events that lasting longer than selected time (seconds).



Clicking tool button user selects shooting events, where bullets count is greater than selected number.



Clicking tool button user selects shooting events, where bullets count are lower than five.



Clicking tool button user disables all filters.



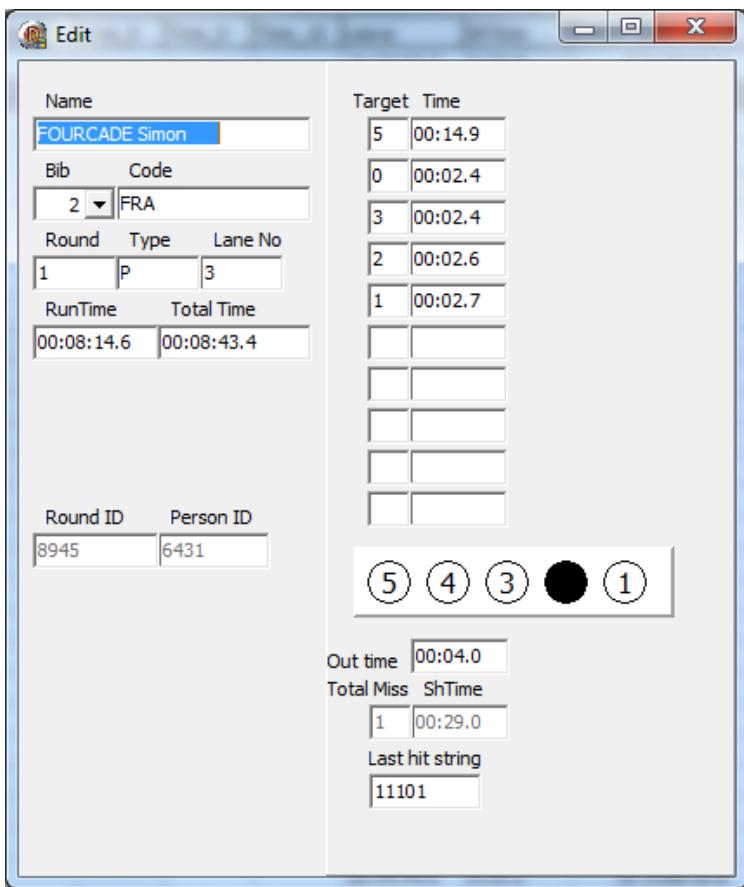
Clicking tool button user starts calculation of ranking.

6337	4	10
6338	4	10
6339	4	10

Use the mouse right button's pop up menu to edit the selected shooting round.

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Picture 34. Edit shooting event.

Here you can change anything recorded by the system.

To save the changes close the form and press **OK** button to “Save Data” question. If the “No” button is pressed the form closed but the data will not save and pressing cancel button can be resumed to round data window.

When the data have been corrected and ready to report, the program must calculate the

rankings. Before that all filters have to be removed, by pressing **No Filter** tool button.

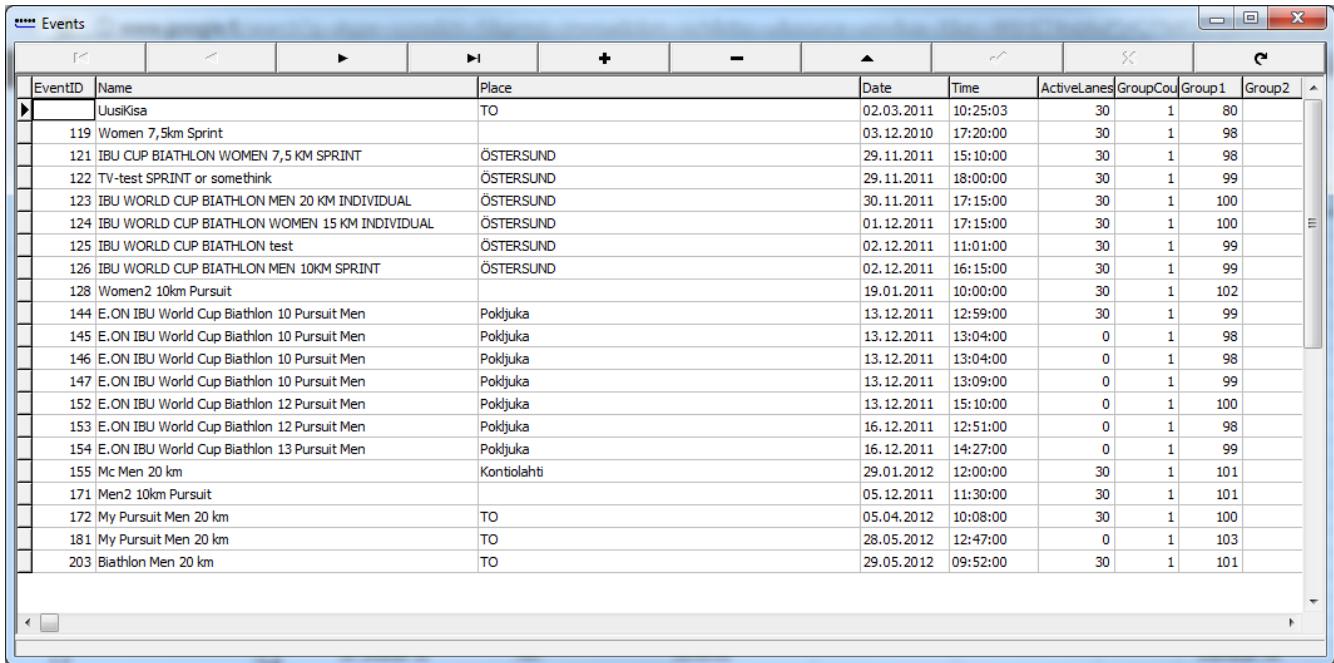
Then with tool button **Make Rank** the calculation can start.

## 11. Editing created events data

### 11.1. Edit event data



Tool button opens event data window. There the events data can be edited.



A screenshot of the "Events" window, which is a Microsoft-style grid application. The title bar says "Events". The window contains a table with columns: EventID, Name, Place, Date, Time, ActiveLanes, GroupCount, Group1, and Group2. The data table lists various biathlon events with their details. For example, event 119 is "Women 7,5km Sprint" at TO on 02.03.2011 at 10:25:03. Event 121 is "IBU CUP BIATHLON WOMEN 7,5 KM SPRINT" at ÖSTERSUND on 03.12.2010 at 17:20:00. Event 122 is "TV-test SPRINT or somethink" at ÖSTERSUND on 29.11.2011 at 15:10:00. Event 123 is "IBU WORLD CUP BIATHLON MEN 20 KM INDIVIDUAL" at ÖSTERSUND on 30.11.2011 at 17:15:00. Event 124 is "IBU WORLD CUP BIATHLON WOMEN 15 KM INDIVIDUAL" at ÖSTERSUND on 01.12.2011 at 17:15:00. Event 125 is "IBU WORLD CUP BIATHLON test" at ÖSTERSUND on 02.12.2011 at 11:01:00. Event 126 is "IBU WORLD CUP BIATHLON MEN 10KM SPRINT" at ÖSTERSUND on 02.12.2011 at 16:15:00. Event 128 is "Women2 10km Pursuit" at TO on 19.01.2011 at 10:00:00. Event 144 is "E.ON IBU World Cup Biathlon 10 Pursuit Men" at Pokjuka on 13.12.2011 at 12:59:00. Event 145 is "E.ON IBU World Cup Biathlon 10 Pursuit Men" at Pokjuka on 13.12.2011 at 13:04:00. Event 146 is "E.ON IBU World Cup Biathlon 10 Pursuit Men" at Pokjuka on 13.12.2011 at 13:04:00. Event 147 is "E.ON IBU World Cup Biathlon 10 Pursuit Men" at Pokjuka on 13.12.2011 at 13:09:00. Event 152 is "E.ON IBU World Cup Biathlon 12 Pursuit Men" at Pokjuka on 13.12.2011 at 15:10:00. Event 153 is "E.ON IBU World Cup Biathlon 12 Pursuit Men" at Pokjuka on 16.12.2011 at 12:51:00. Event 154 is "E.ON IBU World Cup Biathlon 13 Pursuit Men" at Pokjuka on 16.12.2011 at 14:27:00. Event 155 is "Mc Men 20 km" at Kontiolahti on 29.01.2012 at 12:00:00. Event 171 is "Men2 10km Pursuit" at TO on 05.12.2011 at 11:30:00. Event 172 is "My Pursuit Men 20 km" at TO on 05.04.2012 at 10:08:00. Event 181 is "My Pursuit Men 20 km" at TO on 28.05.2012 at 12:47:00. Event 203 is "Biathlon Men 20 km" at TO on 29.05.2012 at 09:52:00.

Picture 35. Events window.

### 11.2. Edit groups data



Tool button opens groups window, where the data of the used groups can be edited.

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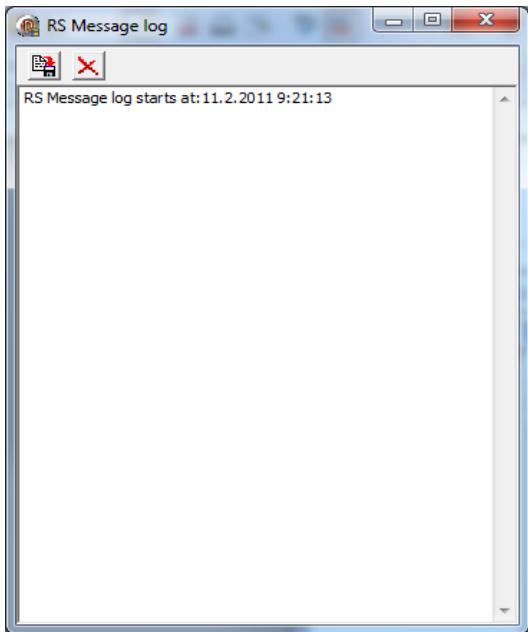
---

GroupName	RoundsCount	Rounds	Bullets
► Women	PS	5	
sprint	2 PS	5	
Individual	4 PSPS	5	
Men	PPSSSS	5	
Women	PPSSSS	5	
Junior	3 PPSS	5	
Men 1	4 pspS	5	
Men 2	2 pspS	5	
Men 3	2 ps	5	
men 4	4 ppss	5	
Men 5	4 pspS	5	
Men 6	2 ps	5	
Men 7	4 ppss	5	

Picture 36. Groups window.

## **12. Log windows**

In the program there are different log windows. Data in these windows will be saved, when programs shut down. These files can be found in {Install dir}\LogData\\*.txt. It is recommended to check that directory and delete all unnecessary files.



Picture 37. RS Mess-log window.