# **Inband Range Officer Manual**

(1.1.2020)

1	Do	wnloading and Installation of the InBand Range Officer software	2
2	Im	plementation of the Range Officer	2
	2.1	Connecting firing point computers	2
	2.2	Settings for the firing point computer (InBand Scoring)	2
	2.3	Determination and modifying shooting defaults	5
3	Sta	art list allocation	6
	3.1	Start list allocation with Inband Range Officer software	6
	3.2	Start list allocation with specific softwares	6
	3.3	Start list allocation with LibreOffice Calc software	7
	3.4	Start list allocation with Google Sheets	9
4	Ma	anaging a competition	10
	4.1	Quick match menu	11
	4.2	Managing a shooting relay	13
	4.3	Results file	14
	4.4	Result service by the CSVFileView programme	15

# 1 Downloading and Installation of the InBand Range Officer software

This manual is compatible with following softwares

- InBand Range Officer v1.8

- InBand Scoring v4.3

Before using the InBand Range Officer software in training or in competition, it is recommended to download and install the latest version of above mentioned softwares.

The latest version of the InBand Range Officer is downloadable from:

https://drive.google.com/open?id=12FdQEf0sIyjE921cfWPY2BOJwKCSkv5h

The latest version of the InBand Scoring is downloadable from:

https://drive.google.com/open?id=0B3rKx5S-sD2TYUpDNTk2WW0ySkU

# 2 Implementation of the Range Officer

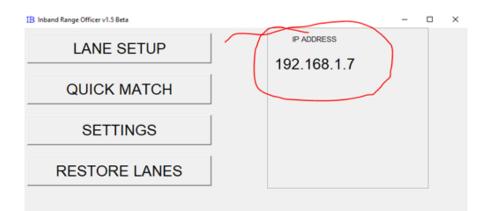
#### 2.1 Connecting firing point computers

Connecting necessary firing point computers with the InBand Range Officer software will be done by following steps

- 1. All firing point computers and the competition management computer must be first in the same network. This can be done for example by WLAN Access point or by IP switch.
- 2. Execute the Inband Range Officer software
- 3. Execute Inband Scoring software in every firing lane
- 4. Check out the settings of firing point computers and connect them to the competition management computer (see paragraph 3.3)

# 2.2 Settings for the firing point computer (InBand Scoring)

After you have executed the InBand Range Officer software you can find the internet protocol (IP) address of the competition management computer in its main view (picture 1).



Picture 1: The main window of the Inband Range Officer. IP address must be set in the settings of all firing point computers.

Execute InBand Scoring programme in every firing point and go to the SETTINGS menu. Check that following data is correct (picture 2)

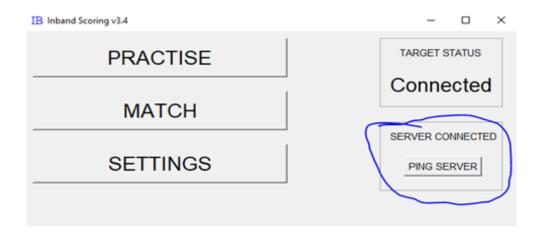
- The IP address of the competition management computer
- Number of the firing point
- Allow remote control square is ticked.

Name:         John Shooter           Club:         Shooting club	
Server IP:         192.168.1.7           LANE #:         1           Airpistol band move(0-9):         1           Imaluedikko band move(0-9):         1	
50m rifle band move(0-9): 0 □ Use decimals on airpistol □ Use decimals on airrifle	
UPDATE CALIBRATION	
DIAGNOSE □ Debugung de	
ERROR LOG	
BACKUP FILE	
CLOSE	
RESET TARGET	

Picture 2. Settings in the InBand Scoring software

In the main menu of the firing point computer you can find a setting for Non-stop match mode. Ticking this function on (<sup>V</sup>) a shooter can bypass the competition management computer if an event is run by a non-stop schedule without any special relays. So, an individual lane can be started and stopped whenever needed. Non-stop mode is recommended also to be kept on also in normal competitions, if there should be some connection malfunctions (f.ex WLAN collapses) between the competition management computer and a firing point computer. If this kind of case a firing point computer can overtake the command and competition can be completed.

The SETTINGS menu can be closed after which you must push the PING SERVER button. If all settings are correct, a text SERVER CONNECTED should be visible (picture 3) to mark that this firing point computer is connected to the competition management computer.



Picture 3. Connecting the firing point computer (InBand Scoring) with a competition management computer (InBand Range Officer)

In the LANE SETUP menu of the InBand Range Officer can be monitored all the lanes which are connected to the competition management computer. In the picture 4 you can see that there are 22 connected firing points. In this menu you can easily test whether the targets also are connected properly. By pushing BLINK button of a firing point, the target of that lane blinks its led illumination system.

The software maintains all settings if the software is shut down, so they are always ready for the next competition.

#### IB Lane setup

_			
	1	192.168.1.10	BLINK
	2	192.168.1.11	BLINK
	3	192.168.1.12	BLINK
	4	192.168.1.13	BLINK
	5	192.168.1.14	BLINK
	6	192.168.1.15	BLINK
	7	192.168.1.16	BLINK
	8	192.168.1.17	BLINK
	9	192.168.1.18	BLINK
	10	192.168.1.19	BLINK
	11	192.168.1.20	BLINK
	12	192.168.1.21	BLINK
	13	192.168.1.22	BLINK
	14	192.168.1.23	BLINK
	15	192.168.1.24	BLINK
	16	192.168.1.25	BLINK
	17	192.168.1.26	BLINK
	18	192.168.1.27	BLINK
	19	192.168.1.28	BLINK
	20	192.168.1.29	BLINK
	21	192.168.1.30	BLINK
	22	192.168.1.31	BLINK

Picture 4. Lane Setup view in competition management computer

# 2.3 Determination and modifying shooting defaults

The InBand Range Officer software uses a text file format for defining different amount of shots and specific classes (based on age or other skills). In the text file amount of shots and classes are on their own rows (starting with amount of shots) separated by commas.

60,M,MJ,M18,M20,W,WJ 40,N,N16,N18,N20,N45,N50,N55,N60,N65,N70,N75,N80,N85,M16,M45,M50,M55 30,14VT,14HT 20,8IT,10IT,12VT,12HT,11-14A Above mentioned text file can be found in the same Google Drive address as this manual. In the InBand Range Officer software that setting is a default. These classes are used in the Finnish Shooting Sport Association.

A class definition list are imported in to the InBand Range Officer via SETTINGS menu. There you can find SERIES DEFINITIONS button. Press the button and import the file specifying number of shots and classes. The software saves all definitions which are automatically in use in a restart of the software.

# 3 Start list allocation

# 3.1 Start list allocation with Inband Range Officer software

A start list of the competition can be produced in the Inband Range Officer QUICK MATCH view (picture 5). This is especially recommended in a small Inband range and in a single relay competition. Quick Match view is normally used view during a competition.

Group			Name	Club	Disc.	Decim.	Series	Shots	Last	Total	Command	Status
9	1	OPEN	Aku Ankka		Airpistol					0		NO CONNECTI

Kuva 5: Quick Match view

Write the name of a shooter in the Name box and his/her shooting club into a Club box. Next choose from fall down menus discipline (Disc.), determination of the score (Decim.) and shooting class (Series). Finally, connect the firing lane into a group with others by clicking the left most box Group in order to manage them simultaneously. The firing lane data options are explained more thoroughly in the chapter 5.1 Quick match.

In the Quick Match view you can follow how the competition develops. The number of shots can be seen in the paragraph Shots, values of the last shots in the paragraph Last and the total scores in the paragraph Total. This is explained more precisely in chapter 4.

# 3.2 Start list allocation with specific softwares

A start list allocation can also be done in advance before a competition day, which helps to conduct large and multirelay events.

Start lists can be produced with any text editors (like Windows memo). Start lists have to follow certain formalities that Inband Range Officer can utilize them (to read shooter, discipline, shooting class data). A start list file is in csv form (comma separated values) without spaces between data items as follows:

# Relay, Firing point, Family name, First name, Shooting Club, Discipline, Class

- 1,1,Donald,Duck,Duckburg Shooting Club,Air rifle,M
- 1,2,Scrooge,McDuck,Duckburg Shooting Club,Air rifle,M
- 1,3,Huey,Duck,Duckburg Shooting Club,Air pistol,JM
- 1,4,Dewey,Duck,Duckburg Shooting Club,Air pistol,JM
- 1,5,Louie,Duck,Duckburg Shooting Club,Air pistol,JM

- 1,6,Daisy,Duck,Duckburg Shooting Club,Air pistol,W
- 1,7,May,Duck,Duckburg Shooting Club,Air pistol,JW
- 1,8,John,Rockerduck,Duckburg Shooting Club,Air pistol,M
- 1,9,Phantom,Blot,Hustle Stalkers,Air pistol,M
- 1,10,Flinthaert,Glomgold,Plute Shooters,Air pistol,M

Utilizing computer aided forms or registration systems start list allocation is even easier. However, in this manual we guide you use two useful way to make list allocation.

- 1. Libre Office Calc software
- 2. Google Sheet.

# 3.3 Start list allocation with LibreOffice Calc software

LibreOffice is a commonly used free software packet. You can download it without expenses from:

https://www.libreoffice.org/

You can start making a start list allocation by using an example of a start list, which you can find here:

https://drive.google.com/open?id=1Of8kWN-\_-r8fGKjrFdTR-\_B-9MaQ3ISz

When you open a start list mentioned above in a LibreOffice software, it will open a window seen in the picture 6. It is important that you choose the right charactres (UTF-8). Also, you need to choose a comma as a separator (note: comma separated values).

LibreOffice software recalls these settings, so you do not have to re-set them every time you start making start lists.

Text Import - [start%20list%20allocation%20-%20esimerkki_eraluettelo(1).csv]										
Import	•									
Character set: Western Europe (DOS/OS2-861/Icelandic)										
<u>L</u> anguage:	Default - Engli	sh (Ireland)		$\sim$						
From ro <u>w</u> :	1									
Separator Opt	ions									
O <u>F</u> ixed wid	th		Separated b	У						
<mark>⊡ <u>T</u>ab</mark>	✓ <u>C</u> omma	<mark>⊘ S<u>e</u>micolor</mark>	n Space	Othe <u>r</u>						
🗌 Merge	<u>d</u> elimiters	Tr <u>i</u> m space	es	String de	elimiter: " 🗸					
Other Options										
Format q	uoted field as text		Detect spec	cial <u>n</u> umbers						
Fields										
Column type	:									
Standard	l Standard	Standard	Standard	Standard	^					
1 Relay	Firing point	First Name	Family Name	Shooting (	Club					
2 1	1	Donald	Duck		Shooting Cl					
3 1	2	Scrooge	McDuck		Shooting Cl					
4 1	3	Huey	Duck		Shooting Cl					
5 1	4	Dewey	Duck		Shooting Cl					
6 1	5	Louie	Duck		Shooting Cl					
7 1	8	Daisy	Duck		Shooting Cl					
8 1	9	May	Duck		Shooting Cl					
<	10	lohn	Rockerduck	Duckhura	Shonting Cl ¥					
<u>H</u> elp				ОК	Cancel					

Picture 6. Start list allocation in LibreOffice Calc software

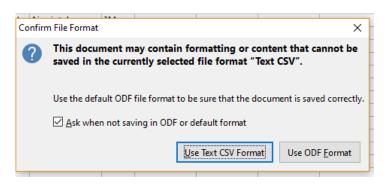
Modifying an old start list is very simple, but you have to notice following issues:

- Abbreviations for classes must follow official class names (note paragraph Determination and modification shooting defaults)
- There must not be empty rows in start list in LibreOffice Calc table. Empty firing points will be considered by numbering the firing points (second column)
- There must not be firing points which does not exists, otherwise the data transfer into the Range Officer does not succeed.

start list allocation - esimerkki_eraluettelo(1).csv - LibreOffice Calc											
<u>F</u> ile	<u>F</u> ile <u>E</u> dit <u>V</u> iew Insert F <u>o</u> rmat St <u>y</u> les <u>S</u> heet <u>D</u> ata <u>T</u> ools <u>W</u> indow <u>H</u> elp										
📓 • 🧀 • 🔜 •   🗅 🖶 👌   🐰 🛍 👗 •   🍝 🍌   🥎 • 🔿 •   🦓 Aby											
Lib	Liberation Sans 🔽 10 🖳 B I U   A · 🔊 ·   Ξ Ξ Ξ   Ξ, 🖽   ∓										
E8		<ul> <li>✓   f<sub>x</sub></li> </ul>	$\sum =  \mathbf{c} $	Duckburg Shootir	ng Club						
	Α	В	С	D	E	F	G				
1	Relay	Firing point	First Name	Family Name	Shooting Club	Discipline	Class				
2	1	1	Donald	Duck	Duckburg Shooting Club	Air rifle	M				
3	1	2	Scrooge	McDuck	Duckburg Shooting Club	Air rifle	M				
4	1	3	Huey	Duck	Duckburg Shooting Club	Air rifle	JM				
5	1	4	Dewey	Duck	Duckburg Shooting Club	Air rifle	JM				
6	1	5	Louie	Duck	Duckburg Shooting Club	Air pistol	JM				
7	1	8	Daisy	Duck	Duckburg Shooting Club	Air pistol	W				
8	1	9	May	Duck	Duckburg Shooting Club	Air pistol	JW				
9	1	10	John	Rockerduck	Duckburg Shooting Club	Air pistol	M				
10	1	11	Phantom	Blot	Hustle Stalkers	Air pistol	M				
11	1	12	Flinthaert	Glomgold	Plute Shooters	Air pistol	M				
12	1	ĺ		-							

Picture 7. Start list modification in LibreOffice software

Start list will be saved in normal way. You can save it of course with a new name corresponding the competition, discipline and day-time-group. The software will ask you the file format in which the saving will be done – **use then a CSV format**!



Picture 8. Saving a start list in the LibreOffice software

#### 3.4 Start list allocation with Google Sheets

Another easy way to create a start list is to use Google Sheet software. It can be used by normal internet browser without any special softwares. The sheet can be edited simultaneously by many people if needed. To share Google Sheets forms, an internet connection is needed. An operator needs also a Google account. If a person has a gmail account, then he/she has also a Google account. A shared gmail account can be created also for a shooting club.

An example of a Google Sheets start list you can find here:

```
https://drive.google.com/drive/folders/10f8kWN-_-r8fGKjrFdTR-_B-9MaQ3ISz
```

To edit a Google Sheets start list is done as with any spreadsheet. In this example the classes are set in to dropdown menu. When Google Sheets are used it will automatically save the changes: a user do not have to save it by himself/herself.

A start list can be saved and transferred to a user's computer easily in a right format like it stands in the picture 9. As a default, the file is saved in CSV (comma separated values) format into computers Downloaded files, from where you can import it to the InBand Range Officer.

€	$\rightarrow$	C' û	(i) 🔒	https://docs.go	ogle.com/spreadsheets/d/	1X1oCmNHgd	HAz5fq0C			
≣	1.	start list allocation ☆	mat Data	Tools Add-on	s Help <u>All changes save</u>	d in Drive				
iد.	~ ~	Share	.ooo	123 <del>v</del> Arial	• 10 • B Z	<u>\$</u> A ♦.	<b>H</b> 53 ·			
fх		New ►	С	D	E	F	G			
1	Re	Open Ctrl+O	t Name	Family Name	Shooting Club	Discipline	Class			
2	1		ald	Duck	Duckburg Shooting Club	Air rifle	М			
3	1	Import	boge	McDuck	Duckburg Shooting Club	Air rifle	М			
4	1	Make a copy	у	Duck	Duckburg Shooting Club	Air pistol	JM			
5	1		/ey	Duck	Duckburg Shooting Club	Air pistol	JM			
6	1	Download as				Air pistol	JM			
7	1	Download as	Mic	rosoft E <u>x</u> cel (.xls	x)	Air pistol	W			
8	1	Email as attachment	Ope	enDocument form	at (.ods)	Air pistol	JW			
9	1	Version history				Air pistol	M			
10	1	version matory	<u>P</u> DI	PDF document (.pdf) Air pistol						
11	1	2	We	Web page (.html, zipped) Air pistol						
12		Rename		<u>C</u> omma-separated values (.csv, current sheet)						
13		Move to	<u>C</u> or							
14 15		Move to trash	<u>T</u> ab	-separated value	s (.tsv, current sheet)					

Picture 9. Saving a start list in Google Sheets software

#### 4 Managing a competition

To organise a competition, push the QUICK MATCH button in the main menu of the InBand Range Officer. The software request a user to determine the file address where to save the competition data (results). The user can choose a file defined earlier or make a new file by pushing CREATE A NEW FILE button.

All the competition data will be saved into this file.

Selaa kansioita Please choose a directory, then select OK.	
📃 Työpöytä	
> 🧥 OneDrive	
> 🤱 Saku	
🗸 💻 Tämä tietokone	
> 🧊 3D-objektit	
> 📰 Kuvat	
> 🕂 Ladatut tiedostot	
> 🁌 Musiikki	
> 🟥 Tiedostot	
> 📃 Työpöytä	
> 📑 Videot	
> 🏪 OS (C:)	
Kansio: Ladatut tiedostot	
Luo uusi kansio	OK Peruuta

Picture 10. Determining the result directory in the begin of the competition

# 4.1 Quick match menu

During a competition a QUICK MATCH window (picture 11) is the main menu to manage firing point computers.

B QUIC	СК МАТ	сн										- 1
	INIT	START	STOP REFRESH GROUP	CHECK LANES	LOAD RELA	RESE	T GROUP	DEFAULT	DEBUG			
Group	#		Name	Club	Disc.	Decim.	Series	Shots	Last Total	Command	Status	<u> </u>
	1	OPEN	Aku Ankka	AA	Airpistol 🖃	OFF 🖃	8IT 💴	0	0	INIT	NO CONNECTI	-
~	2	OPEN	Roope Ankka	AA	Airrifle 🛁	ON -	N	0	0	INIT	NO CONNECTI	
~	3	OPEN	Tupu Ankka	AA	Airpistol 🖃	OFF 😐	8IT	0	0	INIT	NO CONNECTI	
•	4	OPEN	Hupu Ankka	AA	Airpistol 🖃	OFF 😐	10IT 😐	0	0	INIT	NO CONNECTI	
~	5	OPEN	Lupu Ankka	AA	Airpistol 🖃	OFF 😐	12VT 😐	0	0	INIT	NO CONNECTI	
•	6	OPEN			_	_		0	0	INIT	NO CONNECTI	
•	7	OPEN				_		0	0	INIT	NO CONNECTI	
•	8	OPEN	lines Ankka	AA	Airpistol 🛁	OFF 😐	14VT	0	0	INIT	NO CONNECTI	
~	9	OPEN	Liinu Ankka	AA	Airpistol 🛁	OFF 😐	11-14A 🛁	0	0	INIT	NO CONNECTI	
<b>v</b>	10	OPEN	Kroisos Pennonen	AA	Airpistol 😐	OFF 😐	14HT 😐	0	0	INIT	NO CONNECTI	
<b>v</b>	11	OPEN	Musta Kaapu	KelmienAS	Airpistol 😐	OFF 😐	M18 🔟	0	0	INIT	NO CONNECTI	
<b>v</b>	12	OPEN	Kulta-Into Pii	PohattaAs	Airpistol 🛁	OFF 😐	M80 🔟	0	0	INIT	NO CONNECTI	
<b>v</b>	13	OPEN				_	_	0	0	INIT	NO CONNECTI	
•	14	OPEN				_		0	0	INIT	NO CONNECTI	
~	15	OPEN				_		0	0	INIT	NO CONNECTI	
~	16	OPEN				_		0	0	INIT	NO CONNECTI	
~	17	OPEN						0	0	INIT	NO CONNECTI	
~	18	OPEN						0	0	INIT	NO CONNECTI	
~	19	OPEN						0	0	INIT	NO CONNECTI	
~	20	OPEN						0	0	INIT	NO CONNECTI	
~	21	OPEN						0	0	INIT	NO CONNECTI	
<b>v</b>	22	OPEN						0	0	INIT	NO CONNECTI	

Picture 11. The Quick Match menu

#### Buttons in the upper control bar of the Quick match menu

To manage firing points collectively with the InBand Range Officer software, click (<sup>V</sup>) the small square on the Group column on the left side of the QUICK MATCH window. After this all commands given with the buttons in the upper bar will affect to the all chosen firing point computers. The EST technical officer uses normally only these buttons during a competition.

- INITInitializes computers of firing points with the shooter information. The status of the<br/>firing point computer must be IDLE in order to make initialization. Before this initialization you<br/>must have created the start list with some text editor (look paragraph 2.1 or 2.2)
- STARTSends a START command to the firing points computers. Depending of the stage of the<br/>competition the preparation and sighting time or the competition time will start.
- STOPSends a STOP command to the all firing points computers. Depending of the stage of<br/>the competition the preparation and sighting time or the competition time will be stopped.

#### **REFRESH GROUP**

Collects the shooting data from all firing points. This operation is needed only if there has been a connection failure between the competition management computer and the firing point computers. Usually this function is not needed.

- **CHECK LANES** By pushing CHECK LANES button, you can check that the main competition computer has a connection to all firing point computers. It also checks that the firing point computers are in the correct status. First, after pushing CHECK LANES button the firing point status of all firing point computers shows WAIT CONNECTION status and after a connection is checked it turns to the right status (CONNECTED). If some firing point status remains in WAIT CONNECTION status, it means that the competition management computer cannot create a connection to that lane.
- **LOAD RELAY** To load a starting list.
- **RESET GROUP** Resets all the firing point computers.
- **DEFAULT** Returns all the firing point computers to default settings. Note: this does not affect to the illumination level of the targets.
- **DEBUG** Lays all the firing point computers to a DEBUG mode. This is mainly used in testing and trouble shooting.

# Buttons for the individual firing points

Group	The group box ticked makes the upper bar buttons effective for this single firing point.
OPEN	This button opens firing point menu for this single lane. So far, the single lane menu includes only the settings for the target illumination device.
Name	Name of the shooter
Club	Shooting club
Disc	Discipline. The InBand Range Officer supports currently air pistol, air rifle and 50 metre rifle. The support will be extended to the other InBand Scoring disciplines to come.
Desim.	Decimal scoring is on or off. Default settings are off for air pistol and on for rifles.
Series	Shooting class of an athlete. In the drop down menu the earlier defined shooting classes are selectable (note paragraph for determination and modifying the shooting classes).
COMMAND	With COMMAND button commands can be given to the single firing points computers. The exact command is depending of the status of the single lane (f ex, if the lane status is WAIT SIGHTERS, it stands START in the COMMAND button).

#### 4.2 Managing a shooting relay

The procedure to manage a shooting relay is as follows (presumed that all needed firing points are luckily connected with the InBand Range Officer programme and QUICK MATCH menu is open and running):

- 1. Check that all lanes are really connected to the InBand range Officer programme by pushing CHECKS LANES button. The status of all lanes should become IDLE.
- 2. Import the beforehand prepared relay file in to Inband Range Officer programme by pushing LOAD RELAY button. You can also write the shooter name and shooting club details straight in the QUICK MATCH menu.
- 3. Compose a group by ticking the GROUP square of the firing points which have an athlete in the relay.

- 4. Press INIT button in the upper control bar. After this it will appear a target graphic to all firing point computers including details of a shooter and a red STOP text on the target figure.
- 5. After the chief range officer (CRO) has given a start command for the preparation and sighting time, press START button in the upper bar. The STOP text in the firing point computer will disappear and the countdown clock will start running (note that the sighters are not visible in the QUICK MATCH menu.
- 6. After the preparation and sighting time has ended, press STOP button in the upper control bar.
- 7. In the begin of the match time, press START button in the upper control bar. During a match time numbers of shots, the last shot value and a standing result will be indicated in the QUICK MATCH menu.
- 8. When the match is all over (match time is over or the CRO has commanded the ultimate STOP UNLOAD!), press STOP button in the upper control bar. The technical officer should make a back-up copy of the result file (note paragraph 4.3 Result file).
- 9. After the results of the relay are definitely secured, a RESET GROUP button in the upper control bar can be pressed. This reset firing points to starting mode of a relay.

If there are multible relays in a competition and all results are desired to have in the same back-up copy, the next relay can be initialized (load relay, init etc) immediately without closing the QUICK MATCH menu. This adds the results of the following relays automatically into the same result file with the previous relays. You should keep in mind that always after every relay make a back-up copy.

If the back-up copy of the following relay is wanted to have separately (different file), the QUICK MATCH menu must be closed and re-opened.

# 4.3 Results file

InBand Range Officer software produces two result files during a competition: results.csv and backup.csv. In the results.csv file the results of every 10 shot series will be saved sorted by shooting classes and by superiority. The results.csv file can be run for real time scoring f.ex by CSVFileView software.

Results.csv file details is in next format

NAME;SHOOTING CLASS;DISCIPLINE;CLASS;SHOTS;LAST;S1;S2;S3;S4;S5;S6;SCORE Inner tens

Mickey Mouse ;DSC;Airpistol;M;18;8;82;70;None;None;None;None;152 2-X

Scrooge McDuck ;DSC;Airpistol;M;16;7;89;53;None;None;None;None;142 3-X

Donald Duck ;DSC;Airpistol;M;14;9;84;35;None;None;None;None;119 1-X

Daisy Duck ;DSC;Airpistol;F;22;8;89;86;17;None;None;None;192 2-X

In the Backup.csv file the shot data is saved in the next format:

Donald Duck;DSC;Airpistol;M;9;8;9;9;7;8;7;X;9;8;8;9;9;9;

Scrooge McDuck;DSC;Airpistol;M;9;8;8;10;X;9;9;10;7;9;9;X;X;8;9;7;

Mickey Mouse;DSC;Airpistol;M;9;8;9;9;9;7;6;9;8;8;8;8;8;8;9;9;X;8;

Daisy Duck;DSC;Airpistol;F;X;8;9;10;8;9;8;10;8;9;9;8;9;8;9;8;7;8;9;9;9;X;9;8;

Backup.csv file can be utilized by the third part scoring softwares.

# 4.4 Result service by the CSVFileView programme

CSVFileView is a share-ware software, which is developed to monitor .csv files. It is easy to use, and you can use it for simple results, timing and scoring during the competition.

The CSVFileView is downloadable from:

https://www.nirsoft.net/utils/csv\_file\_view.html

The download link is found in the bottom of the web page

# Feedback

If you have any problem, suggestion, comment, or you found a bug in my utility, you can send a message to nirsofer@yahoo.com

Download CSVFileView (32-bit)

Download CSVFileView (64-bit)

Picture 12: Download CSVFileView

The results.csv file should be opened by the advance open function of the CSVFileView software. The defaults is shown in picture 13. The semi-comma must be used to separate the data fields as it is done also in the results.csv file.

The "Auto Refresh" must be chosen in the Option window that the results should be updated during a competition.

# 16 (17)

Advanced Open		>
Filename:		
:\tmp\kayttoohje\results.csv		
First line contains column names	Automatically detect remark lines	
Automatically detect the delimiter and quotes character	ers	
Use the following characters as delimiter: (Type \t for tab	o character, \s for space character)	
;		
Use the following characters as quotes:		
-		
Lines to load:		
Load all lines from the file $\sim$	· 100	
Use the following filter while loading the file:		
	OK	Cancel

Picture 13. Opening of the results.csv with CSVFileView's advanced open function.

File Edit View O	ptions Help											
📽 🖉 🔽 🔛												
NAME	SHOOTING CLUB	DISCIPLINE	CLASS	SHOTS	LAST	S1	S2	S3	S4	S5	<b>S</b> 6	RESULT
Mickey Mouse	DSC	Airpistol	м	18	8	82	70	None	None	None	None	152 2->
Scrooge McDuck	DSC	Airpistol	М	16	7	89	53	None	None	None	None	142 3->
<ul> <li>Donald Duck</li> </ul>	DSC	Airpistol	М	14	9	84	35	None	None	None	None	119 1->
Daisy Duck	DSC	Airpistol	w	22	8	89	86	17	None	None	None	192 2->

Picture 14. Results.csv file via the CSVFileView programme

<u>File E</u> dit <u>V</u> iew	<u>O</u> pt	ions <u>H</u> elp								
🖻 🏝 🗸 🔟		Unicode/Ascii Save Mode	>	1						
NAME		Unicode/Ascii Default Open Mode	>	S1	S2	S3	S4	S5	S6	RESULT
Mickey Mouse		After Loading File - Sort By	>	82	70	None	None	None	None	152 2-x
Scrooge McDue			>	89	53	None	None	None	None	142 3-x
Donald Duck		Auto Refresh Mode	>	84	35	None	None	None	None	119 1-x
•	$\checkmark$	Add Byte Order Mark To Unicode Files		I						
Daisy Duck		Add Header Line To CSV/Tab-Delimited File		89	86	17	None	None	None	192 2-x
	$\checkmark$	Keep Columns Size/Order on Refresh		I						
		Enable String Interning		I						
		Always Use Advanced Open Settings								
lines		First Line Contains Column Names		w.nirse	oft.net					
lesson on e Drive e Statement	~									
💶 Tämä tietol	~	Allow MultiLine Fields		L						
	~	Auto Detect Remark Lines								
💣 Verkko		Align Numeric Columns To Right		I						
	$\checkmark$	Automatic Numeric Sorting		I						
	$\checkmark$	Automatic Date Sorting		I						
		Add Thousands Separator		I						
		Select Another Font		I						
		Use Default Font		I						
		Auto Refresh								
	$\checkmark$	Scroll To Bottom On New Line		I						
		Beep On New Line		I						
		Always On Top								
		Explorer Context Menu								
		Custom Delimited File Settings	Ctrl+F9							

Picture 15. Option menu of the CSVFileView software. It is important to tick the AUTO FRESH point in order to update results.

Enjoy conducting shooting events!