



WORLD SHOOT III

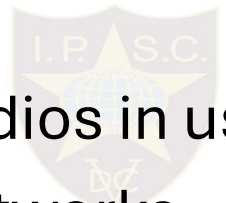
Communications on RWS 24

16.7.2024

RIFLE 2024 FINLAND

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Radios in use

- Three types of radios
 - Commercial **VHF**
 - Longer range
 - Commercial **UHF**
 - Two brands: **Kenwood**, **Motorola**
 - Different channel numbers!
 - **PMR446** – 446 MHz FM
 - Compact size
- Open networks, possibility of interception or interference
- Main frequency/channel, backup frequency
 - Move to backup only if instructed so!
 - WhatsApp is used if the radios fail

Networks



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Usage	Persons	Radio type
General	RMs, Areas, Stats Head, QM Head, PF, First aid	VHF
Office	Stats office	VHF
QM internal	QM internal network	UHF
Areas 1,2	Area CRO, stages in that area, QM for that area	UHF
Areas 3,4,5	Area CRO, stages in that area, QM for that area	PMR446
Scoring	Scoring personnel + RO/scorekeeper in one stage	PMR446



Networks ...

- Stages can only communicate to same area, to Area CRO and to QM for that area
 - Calls to the RM, PF etc must go via Area CRO
 - Area CROs have two radios
 - Generally, stages need not listen for traffic for them
 - We know where you are
 - However listening does not hurt
- Only heads of the office and QMs are in General network
 - Office network is organised by CSO
 - Area QMs are on the area networks

Call signs



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Person	Call sign(s)
Match Director (Petteri Aro)	MATCH DIRECTOR
Range Master (Mark Weisinger)	RANGE MASTER
Deputy Range Master (Riku Kalinen)	DEPUTY MASTER
Stats Office	OFFICE , OFFICE 1..
Quarter Master, general network	QUARTER MASTER
Quarter Masters, area networks	QUARTER MASTER 1 .. 5
Area CROs, general network	AREA 1 .. 5
Area CROs, area networks	CRO 1 .. 5
Stages	STAGE 1 .. 30
Scoring	SCORE <stage no>
Power Factor	CHRONO
First aid (Red Cross)	FIRST AID

Protocol on the radio

- Only one person can talk at one time
- Remember to wait one second after pressing the PTT
 - Give receiver time to wake up
 - Otherwise, call to "RANGE MASTER" goes out as "MASTER"
- Describe issue, and what is needed, in plain language (no codes)
 - SCORING ISSUE AT STAGE 15, PLEASE COME
 - DQ AT STAGE 16, PLEASE COME
 - POPPER CHALLENGE AT STAGE 17, NEED CALIBRATION
 - NEED 2 TARGET STICKS AND 5 IPSC TARGETS AT STAGE 13
- Open network
 - So no detailed personal information
 - Name or competitor number is ok if necessary

Protocol on the radio ...



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STAGE 14

Stage 14 wants to contact Area CRO – first say who you want to contact and then who you are

CRO 3, STAGE 14

Remember to press PTT, wait 1 second, then start talking (to give receiver time to wake up)

CRO 3

Area CRO responds

STAGE 14, CRO 3

STAGE 14

SCORING ISSUE AT 14, PLEASE COME

Briefly describe the issue, in plain language (no codes)

CRO 3

ON MY WAY. OUT.

Business is finished and channel is now available

Protocol on the radio ...



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AREA 3

Area 3 CRO wants to contact RM – first say who you want to contact and then who you are

RANGE MASTER, AREA 3

Remember to press PTT, wait 1 second, then start talking (to give receiver time to wake up)

RANGE MASTER

RM responds

AREA 3, RANGE MASTER

AREA 3

DQ AT STAGE 16, PLEASE COME

Briefly describe the issue, in plain language (no codes)

RANGE MASTER

ON MY WAY TO 16. OUT.

Business is finished and channel is now available

Scoring

- On some stages, the scoring detachment waits in a safe place while competitor is shooting, and goes out when range is clear
- Imperative that
 - **LAMR is not given before scoring detachment is safe**
 - **RIC is not given before gun and competitor are safe**
- Radio with RO or scorekeeper and with scoring detachment
 - Separate frequency (not on area network nor other scoring networks)
- Press PTT while giving relevant range commands
 - LAMR
 - RIC

Scoring ...

- If there is no radio contact, stay in a safe state until communication is restored
 - Backup comms: Mobile phone



Scoring, start



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SCORE 29

Scoring detachment is in a safe place and shooting can commence

SCORE 29 IS SAFE

Remember to press PTT, wait 1 second, then start talking (to give receiver time to wake up)

STAGE 29

RO/scorekeeper answers by issuing LAMR to a shooter while pressing PTT

LOAD AND MAKE READY

STAGE 29

Shooter has finished, gun is cleared, RO presses PTT while issuing

RANGE IS CLEAR

SCORE 29

SCORING 29

Scoring detachment goes out

Scoring targets, finishing



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SCORE 29

Scoring detachment is scoring the last target
TARGET 18, TWO ALPHA

STAGE 29

RO/scorekeeper confirms
TARGET 18, TWO ALPHA

STAGE 29

After all scores are recorded
END OF SCORING

SCORE 29

Scoring detachment goes to a safe place and verifies this
SCORE 29 IS SAFE

Emergencies

- Severe injury or illness
 - Gunshot wound
 - Heart attack
 - Anything else which is life-threatening
- Call emergency number 112 right away (better to have a Finn call)
- After that, inform Area CRO
 - CRO informs RM, MD & First Aid
 - Immediate cease-fire over whole range until police/emergency services gives clearance to commence firing (RM).
 - Guides to all intersections (MD).



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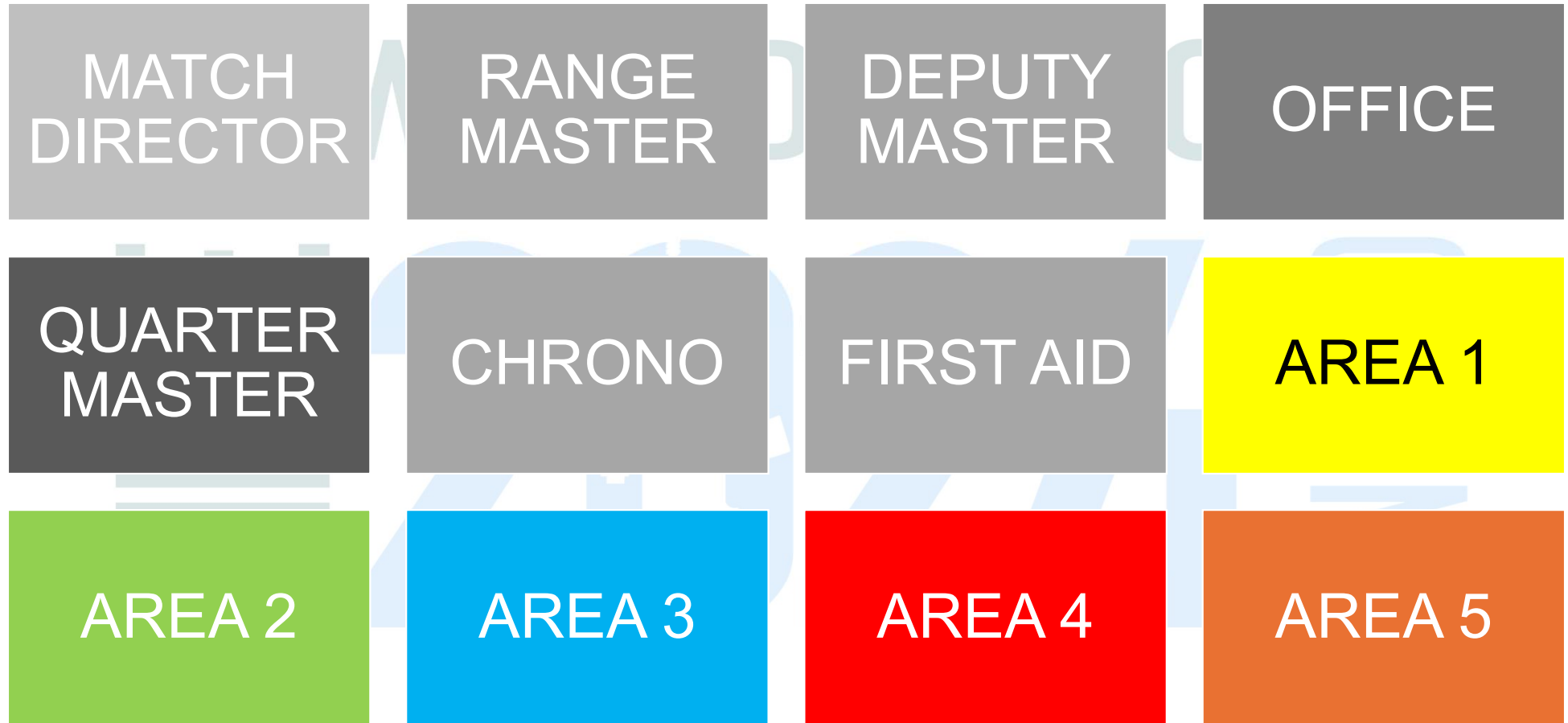
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Network tables

VHF channels are published later (cc)

General – VHF cc



Area 1 – UHF - Ken ch 1 / Mot ch 7



CRO 1
CRO

**QUARTER
MASTER 1**

STAGE 1

STAGE 2

STAGE 3

STAGE 4
SCORE 4
(PMR 446 ch 04)

STAGE 5
SCORE 5
(PMR 446 ch 05)

STAGE 6

Area 2 – UHF - Ken ch 2 / Mot ch 8



CRO 2
CRO

QUARTER
MASTER 2

STAGE 7
SCORE 7
(PMR 446 ch 6)

STAGE 8

STAGE 9

STAGE 10

STAGE 11

STAGE 12

Area 3 – PMR446 ch 01



CRO 3
CRO

QUARTER
MASTER 3

STAGE 13

STAGE 14

STAGE 15

STAGE 16

STAGE 17

STAGE 18

Area 4 – PMR446 ch 02



CRO 4
CRO

**QUARTER
MASTER 4**

STAGE 19

STAGE 20

STAGE 21

STAGE 22

STAGE 23

STAGE 24

Area 5 – PMR446 ch 03



CRO 5
CRO

QUARTER
MASTER 5

STAGE 25

STAGE 26

STAGE 27

STAGE 28

STAGE 29
SCORE 29
(PMR 446 ch 7)

STAGE 30
SCORE 30
(PMR 446 ch 08)

Office – VHF cc



OFFICE

OFFICE 1

OFFICE 2

OFFICE 3

OFFICE 4

OFFICE 5

OFFICE 6



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Questions?