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**Technology Roadmap  
for Organizing Committees of  
INDIVIDUAL (GRAND-PRIX)  
SABRE tournaments  
using StM WIRELESS  
2012-2013**

**1. PERSONAL EQUIPMENT OF ATHLETES**

Each athlete – competitor must have besides his/her standard fencing equipment at least one conductive **T-shirt for sabre**.

Electrical resistance of conductive fabric of T-shirt must fully meet the requirements in Chapter 3., and have to be easily checked by an athlete him/her-self or by any technician using any device for resistance measurement.

*Attention!*

*T-shirt for sabre is sewed-in with conductive fabric **only in waist section**.*

*T-shirt for foil is sewed-in with conductive fabric **in waist section, collar and sleeves**.*

***It is categorically forbidden:***

***to use foil T-shirts for sabre wireless fencing.***

**2. WORKPLACE AND STORING PLACE FOR StM EQUIPMENT**

The organizing committee has to give the following spaces to StM technicians.

**A place (or a room) for preparing and installation of the wireless equipment and athletes equipment control.**

Location – **inside of (or in immediate proximity to) the Call Room.**

Area – **at least 18 m<sup>2</sup>.**

Necessary set equipment inside (at least):

table with table top at least 1,0 m<sup>2</sup> – **3 pcs,**

chair – **3 pcs,**

power socket – **3 pcs,**

coat rack (for 2 persons) – **1 piece,**

free Internet cable connection – **1 point**  
(or free Wi-Fi zone – **free public or a password for closed network**).

**Storing room for the wireless equipment.**

*(is necessary only in case if for preparation and installation of the wireless equipment a place and not a separate room with a key is allocated).*

Location (desirable) – **near the Call Room.**

Area – **at least 6 m<sup>2</sup>.**

Necessary set equipment inside (at least):

table with table top at least 0,8 m<sup>2</sup> – **1 piece,**

chair – **1 piece,**

power socket – **1 piece,**

coat rack (for 2 persons) – **1 piece.**

This room should be closed with a key which has to be given to StM technicians during all days of the competitions.

**Location of StM technicians controlling and maintaining the competitions.**

Seats – **2.**

Location – **in the middle of both long sides of a zone (or a podium) of colored pistes, so that the main scoring apparatus (master) and StM radio receivers of two nearby pistes will be in direct vision of one technician.**

Equipment:

chair – **1 piece.**

**Location of StM technicians controlling and maintaining the competitions during final bouts.**

Location – **near a final stage (podium), so that the main scoring apparatus (master) and StM radio receiver will be in direct vision of technicians.**

Equipment:

chair – **2 pcs.**

***Attention!***

*In parts 2. and 4. of this document the term “power socket” means a free from other devices (besides StM devices) electric plug of European standard with the voltage 110-230V and frequency 50-60Hz.*

*If the competitions are held in location where **another, non-European standard** of sockets is used, the organizing committee has to give to StM the **appropriate quantity of adapter connectors.***

**3. WEAPON CONTROL SERVICE**

Weapon control service has to carefully check next items: weapons, personal cables and conductive T-shirts of each athlete. All of them have to satisfy the technical regulations and the FIE rules.

Particular attention should be paid to the measurement and control of the electrical resistance of conductive T-shirts:

resistance between any two points of conductive fabric of a T-shirt, including both “straps” for crocodile clip of sensor wire, shall not exceed **15 ohms.**

#### 4. INSTALLATION AND EQUIPMENT OF BOUT AREAS

Close to the main scoring apparatus (master) on each piste a distance of **no more than 0,5 meter** and **at the same level with it**, a free space (width x length x height) 400x400x300mm for placing StM wireless radio receiver has to be provided.

Nearby each piste and very close to the main scoring apparatus (master) **one** power socket has to be found – **exclusively for StM radio receiver**.

#### 5. INSTALLATION OF PERSONAL WIRELESS EQUIPMENT AND CONTROL OF ATHLETES - TIME, SCHEDULE

The installation of personal wireless equipment to each fencer and its check (inspection) has to be held by StM technicians **with at least 30 min before** the first bout using the wireless.

Any “wireless” check of an athlete is done with all his/her personal equipment (including **one** weapon, **one** personal cable, mask, lamé and T-shirt – **exactly that equipment he/she uses to fence on piste**. In this case every item of athlete’s equipment has to be **checked beforehand** by Weapon Control Service and has to be **marked** by them.

Schedule of tournament have to be organized in such a way that there is enough time for “wireless” athlete’s checks: between the endings of T.64 bouts and begging of T.32 bouts – **30 min at least**, and if all T.64 bouts are **held only on 4 pistes – 10 min at least**.

#### 6. VOLUNTEERS

During all the second competitions day one or two local volunteers have to be **permanently** provided for StM. They have to talk fluently English or/and Russian.

Volunteers, involved by the organizing committee for pistes serving have to connect and fix on both athletes StM radio transmitters (“red” and “green” one) – just before a bout, and unplug (disconnect) them after the end of a bout. Volunteers have to **put** turned-off transmitters **nearside the piste** or to **bring them in an appropriate place in the Call Room as fast as they can**.

##### *Attention!*

*Before competitions the organizing committee has to accord with StM and confirm a common scheme of connection/disconnection of all athletes before/after each bout.*

All the volunteers serving the pistes have to gather one day before the second competitions day (with a translator of English or Russian if necessary) for maintaining of “wireless” training with StM instructors. Briefing time: **10-15 min**.

#### 7. THE MAIN SCORING APPARATUS (MASTER)

To provide a 100% matching of touches visibility, on athlete’s masks and at the same time on a scoring apparatus (displays, lights repeaters etc.) it is necessary to use on all pistes the main electrical scoring apparatus (master), which has besides 3 standard modes: “epee”, “foil”, “sabre”, **a special separate mode “Wireless”**.

## 8. SAFETY OF EQUIPMENT

The organizing committee has to provide by its own forces a safety of all StM equipment and devices, placed in StM workplace in the Call Room and in the competitions arena.

## 9. TRANSFERS, LIVING AND NUTRITION ORGANISATION

The organizing committee has to pay and provide for StM the following.

Living: **2 single rooms including breakfast** in one of the official hotels.

Transfers:

«**airport – hotel - airport**» - 2 technicians with equipment and personal stuff – at arrival and departure days,

«**hotel – competitions arena - hotel**» - 2 technicians with equipment – three days (a day of preparing and installation of equipment and 2 competitions days).

***Attention!***

*The term “**equipment**” means all necessary hardware, repair parts and instruments, brought by StM technicians in **three** standard fencing roll-bags, overall weight ~**70 kg**.*

Nutrition for 2 technicians inside the competitions arena:

**drinking water** – everyday during preparing and installation days and all competitions days,  
**tea, coffee, fruit, sandwiches (or a complex dinner)** – during T.64 competitions day.