

Hardware and IT Requirements for Wrestling Tournaments

Per Mat

- 1x laptop including power supply
- 1x TV or projector with screen and power cable
- 1x HDMI cable
- HDMI adapter if required (USB-C, DisplayPort, Mini DisplayPort)
- 1x gong, horn or buzzer
- Optional: 1x external mouse (recommended)
- Optional: 1x throwing cushion
- 1x power strip for laptop and TV/projector
- 1x network cable for laptop
- 2 operators per laptop (for breaks and operator changes)

Recommendation: Plan approximately one mat per 50–75 participants. Experience shows a no-show rate of around 15–18%.

Central Competition Sequence Display

Required Hardware

- 1x laptop including power supply
- 1x network cable
- 1x HDMI cable

Display Options

- a) Large projector and screen (consider hall lighting conditions)
- b) Large TV in the spectator area
- c) Multiple 27" monitors in portrait orientation

Recommendation: Combination of a) and c)

Network Infrastructure

General Recommendations

- Wired networking is strongly recommended
- Use Wi-Fi only with high-quality infrastructure
- Local switches near the mats can be used if required (reduces cable lengths), e.g. switch at Mat 2 with further distribution to Mat 1 and Mat 3

Switch Requirements

Mats	Minimum Requirement
3 Mats	6-Port Gigabit Switch
4 Mats	8-Port Gigabit Switch

Recommendation: NETGEAR GS108

Tournament Office Equipment

- 1x laser printer (preferably with 2 trays: 1x certificates, 1x plain paper | e.g. Brother HL-L5100DNT)

Test certificate printing beforehand!
Most printers officially support up to 170 g/m² paper.

- 1x spare toner
- Certificates (participant count +10%)

Recommendation: Offset printing via Saxoprint.de or FlyerAlarm.de using DIN A4 flyers on 170 g/m² paper (usually the most cost-effective option)

- 1x printer paper (500 sheets)

If no internet connection is available or lists need to be posted: additional 500 sheets recommended

- 1x laptop acting as the central server
- 1x laptop for the list manager (one additional laptop for each additional list manager)
- 3x short network cables (3–5 m)
- Power strip

Laptop Configuration

Dedicated User Account

Creating a dedicated Windows user account is highly recommended for tournament use. This separates private and wrestling-related data, ensures that login credentials are known to all operators (a note on the desk or a label on the device is recommended), and prevents authentication issues with network shares.

Setting	Value
Username	wrestling
Password	Sup1ex4

Operating System

- Windows 10
- Windows 11

Required Software

TVW Setup: <https://alex-badewitz.de/Tvw52Setup.exe>

UltraVNC Server: <https://uvnc.com/downloads/ultravnc.html>

Password: `k1aus`

For live streaming: OBS Studio <https://obsproject.com>

Windows Updates

Before the Tournament

- Install all Windows updates several days before the tournament
- Reboot all devices
- Verify that no updates are still pending

During the Tournament

- Pause Windows updates
- Do not install updates during the event
- Optionally configure Active Hours to cover the tournament duration

Power Settings

- High Performance power plan
- Never turn off the display
- Disable sleep mode
- Disable hibernation

Additional Settings

- Optional: Set a solid black desktop background or a tournament-specific wallpaper (improves overall appearance)
- Disable unnecessary startup applications via Task Manager
- Enable "Do Not Disturb" mode for notifications (bottom-right near the clock)

Network Configuration

Recommended: Dedicated Router or FritzBox

If a dedicated router (e.g. FritzBox) is available, DHCP should be used.

Advantages:

- Faster setup
- Easier replacement of devices
- New devices can be added without manual configuration
- Fewer configuration errors
- Centralized management

Alternative: Static IP Addresses

Only required if no router or DHCP server is available.

Device	IP Address
Server	192.168.1.5
Mat 1	192.168.1.10
Mat 2	192.168.1.20
Mat 3	192.168.1.30
Mat 4	192.168.1.40
Central Display	192.168.1.50

Subnet Mask: 255.255.255.0

Important Note

The IP address range used for the tournament network must not conflict with the venue's existing network.

Network Profile

Important (otherwise network communication may become very slow): Set the network type to **Private** (Settings → Network & Internet → Properties → Private)

or force it via PowerShell (adjust Interface Index accordingly):

```
get-netconnectionprofile
set-netconnectionprofile -InterfaceIndex 6 -NetworkCategory Private
```

Pre-Tournament Checklist

- Network profile set to Private

- File and printer sharing enabled
- Windows updates completed
- Windows updates paused
- Sleep mode disabled
- UltraVNC tested
- Printer tested
- Network cables tested

Internet

- Verify Wi-Fi availability | Mobile data plan booked (for example when using a FritzBox with a prepaid SIM card)
- Prepare additional printed documents if internet access is unavailable

Spare Equipment per 3 Mats

- 1x spare TV or projector
- 1x spare laptop
- Spare HDMI cables
- Spare network cables
- Spare power strips
- Spare mouse

Recommendation

All hardware, software, printing and networking functions should be fully tested at least one day before the tournament.