A proper IT set-up is essential for a successful competition. Please read & follow carefully!

- This document needs to be forwarded to the responsible persons and companies in charge of fulfilment. The experts in each field need to have these requirements as soon as possible.

- Every detail is important. If a specification cannot be fulfilled entirely or certain items cannot be delivered as described: please communicate this beforehand with the IJF IT department. All changes need approval.

- The installation time and effort are easily underestimated. Finishing the set-up late in the night before start of competition is risky. All needs to be properly tested. Set the right priorities!

- If there are any questions, please don’t hesitate to contact IJF IT department: it@ijf.org

We are looking forward to a close cooperation and a successful event
The positions in the venue may vary for each event.

We will provide an exact seating plan before the start of cabling.

Additionally, we will add stickers on the tables with the position names and start/end points for each cabling: Local network, internet, audio, video etc.

Therefore, please set the priority to have the podiums (including streaming studio) with tables and covers ready first! Then the cabling can start...
Before and after the event: the equipment needs to be stored and locked in a safe room in the venue.

The IJF IT equipment (video streaming machines, referee replay devices, cameras etc.) will be shipped by a professional logistics company. They will handle all custom procedures.

We need from your federation a contact person. The logistics company will get in touch with you for coordinating the date, time and place for delivery before and the pick-up after the event.

Before and after the event: the equipment needs to be stored and locked in a safe room in the venue.
Accreditation cards and lists

Organiser provides to IJF:

Logos:
- Event
- Federation
- Local sponsors

Responsible Persons with contact mobile number:
- General organisation
- Accommodation
- Transport

IJF sends PDF cards of all delegations and several lists for accreditation to the organiser for printing in color

Accreditation cards need to be printed, cut and laminated. Everything needs to be ready the day before the start of accreditation at the latest

Print all front cards on A4 paper (210 x 297 mm) with PDF settings „custom scale: 100%“ (no „fit“ or „shrink“)

Turn all papers and print backsides on the back

Cut all papers two times, horizontal and vertical in the middle. All white borders should have same size

Laminate with A6 pouches (154x111 mm)

Punch hole(s) for lanyard

Don’t attach lanyards. This will be done later
The room needs to be set-up the evening before the start of accreditation. This includes delivery of all equipment plus the printed and laminated accreditation cards.

Network IP addresses from printers need to be set manually to 192.168.2.8 and 192.168.2.9.

The same printers (plus toners) need to be taken afterwards to the draw and then to the venue.
The same printers (plus toners) must then be taken to the venue.
The electricity planning for the whole event must be done by experts using professional power distribution equipment. No line is allowed to come from a simple wall plug!

**6x Uninterruptible Power Supplies (UPS):**
- Min. power each UPS:
  - 3x 3000 VA
  - 3x 2000 VA
- Waveform Type: pure Sine wave

**Exclusive power lines:**
- 2x streaming studio
  (different phase/circuit than lighting equipment!)
- 1x Event IT
- 2x Referee replay
- 1x IJF TV team

**Multi-outlet power strips:**
- With 5 or more plugs each
- No switches

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**Checklist**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>UPS as specified</td>
</tr>
<tr>
<td></td>
<td>Multi-outlet power strips</td>
</tr>
<tr>
<td></td>
<td>Power cable extensions</td>
</tr>
</tbody>
</table>
IT Requirements

**Electricity points**

- Do not cascade too many power strips!
- Each place on podiums with electricity = separate line, not cascaded to others
- UPS symbol = UPS

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*Notes on diagram:

- Event control
- Judo control
- Streaming Studio
- Warm-up
- Referee replay
- IJF TV team
- IJF staff
- Athletes entrance
Local IP 192.168.2.x

<table>
<thead>
<tr>
<th>Location</th>
<th>x</th>
</tr>
</thead>
<tbody>
<tr>
<td>IJF Server</td>
<td>3</td>
</tr>
<tr>
<td>Scoreboard</td>
<td>11, 12, 13,...</td>
</tr>
<tr>
<td>Judogi control</td>
<td>21, 22, 23,...</td>
</tr>
<tr>
<td>Warm-up</td>
<td>31, 32, 33,...</td>
</tr>
</tbody>
</table>

Subnet: 255.255.255.0
Gateway: empty
DNS: empty

Laptops

**Hardware Requirements:**
- Up-to-date model
- For scoreboards:
  - 8 GB RAM
  - Resolution 1920x1080
- 200 GB disk space free
- Network input
- HDMI output
- Mouse

**Operating System Requirements:**
- MS Windows 10 Professional
- English language version and keyboard
- Clean installation
- No login password
- Windows firewall: file and printer sharing exception enabled
- No security suite/Antivirus software/3rd party firewall installed
- Screensaver/power saver disabled
- Reduced screen brightness on battery
Monitors for Referee Replay + Streaming

All TFT monitors:
- Size: 23”-26”
- Resolution: 1920x1080 Full HD
- Format: 16:9
- Input: HDMI

Checklist:
- 15 Full-HD TFT monitors with HDMI input
IT Requirements

Local Network

- **Network Expert**

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**Checklist**

<table>
<thead>
<tr>
<th>Item</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 24-port gigabit switches</td>
<td>☑</td>
</tr>
<tr>
<td>5 8-port gigabit switches</td>
<td>☐</td>
</tr>
<tr>
<td>CAT-6 Network cables</td>
<td>☐</td>
</tr>
<tr>
<td>Reserve cable role, R45 plugs and crimping tools</td>
<td>☐</td>
</tr>
</tbody>
</table>

---

- All cables must be **labelled** at main switch!
- Local network must be physically **separated** from internet network!
- **Scoreboard** laptops must be cabled **directly** to main local switch, no other switch in between!
## Local Network

### Network switches

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1</td>
<td>Main local switch (24 port)</td>
<td>☐</td>
</tr>
<tr>
<td>SW2</td>
<td>Middle-mat local switch (8 port)</td>
<td>☐</td>
</tr>
<tr>
<td>SW3</td>
<td>Judogi-control local switch (8 port)</td>
<td>☐</td>
</tr>
<tr>
<td>SW4</td>
<td>Warm-up area local switch (8 port)</td>
<td>☐</td>
</tr>
<tr>
<td>SW5</td>
<td>Optional: TV-graphics local switch (4 port)</td>
<td>☐</td>
</tr>
</tbody>
</table>

### Order of cabling

1. Cable from main local switch to **IJF streaming studio** place
2. Cables from main local switch to **scoreboard laptops** mat 1, 2, 3, ...
3. Cable from main local switch to **judogi-control local switch**
4. Cables from judogi-control switch to **judogi-control laptops**
5. Cable from judogi-control switch to **warm-up area local switch**
6. Cables from warm-up area switch to **warm-up area laptops**
7. Cable from main local switch to **middle-mat local switch**
8. Cables from middle-mat-switch to **IJF replay machines 1+2**
9. Cable and back-up cable from main local switch to **TV-graphics** place (using additional switch if distance too long)
10. Cable from streaming studio to **IJF TV team** place

### Key points:

- Whenever a cable is ready:
  - Label with target location
  - Ping test
- No broken latches!
Local Network 10 GBit

- CAT-6 or CAT-7 LAN cables
- Referee replay
- Streaming Studio

Checklist

<table>
<thead>
<tr>
<th>Network cables</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
</tr>
</tbody>
</table>
All Internet connections need to be wired. Additionally, IJF will create their own wireless network. Internet for Media/others is handled by the organiser.

Internet speed – dedicated to IJF exclusive:
- Download speed: 500 MBit/s or more
- Upload speed: 500 MBit/s or more

(Values tested to Frankfurt using www.speedtest.net)
**IT Requirements**

**Internet Network**

**Network switches (provided by IJF)**

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW6</td>
<td>IJF main internet switch located at IJF streaming studio</td>
<td>☑</td>
</tr>
<tr>
<td>SW7</td>
<td>Middle-mat internet switch (8 port)</td>
<td>☐</td>
</tr>
<tr>
<td>SW8</td>
<td>Event control internet switch (8 port)</td>
<td>☐</td>
</tr>
<tr>
<td>SW9</td>
<td>Judogi-control internet switch (8-port)</td>
<td>☐</td>
</tr>
<tr>
<td>SW10-12</td>
<td>Staff internet switches (8 port)</td>
<td>☐</td>
</tr>
</tbody>
</table>

**Order of cabling**

1. Cable from main internet switch to **middle-mat internet switch**
2. Cables from middle-mat internet switch to **speakers place**
3. Cable from middle-mat switch to **event control place**
4. Cable from middle-mat internet switch to **staff internet switches**
5. Six cables from each staff internet switches to nearby **IJF staff places**
6. Cable from main internet switch to **IJF TV team place**
7. Cable from main internet switch to **TV graphics** in OB van
8. Cable from main internet switch to **judogi-control area**
9. Cables from judogi control internet switch to **warm-up place** (TBC)

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**Key points:**

- Whenever a cable is ready:
  - Label with target location
  - Ping test
- No broken clips

For main internet line do not use IP 192.168.2.x as it is reserved for the local network!
Please exchange all passwords with the IT team, so they can be forwarded to each sector.

All wireless needs to be password protected.

Dedicated wireless networks must be provided for:
- Media
- VIP and VVIP areas
- Warm-up area for coaches and athletes

Sufficient bandwidth and maximum capacity to choose.

The wireless networks must be separated from the requested cable internet in the venue.
Scoreboard Setup

LED board controller

Splitter

Backup speaker

Venue speaker

Connection from laptop via HDMI out

LED panels scoreboard: >200 vertical pixel per meter recommended (min. 96 pixel/meter)

MS Windows 10 required!

Checklist

| Item | Required
|------|----------|
| 1 LED screen 55” or bigger 16:9, HDMI input | ☐
| 1 LED board controller | ☐
| 1 converter HDMI to LED board input (if needed) | ☐
| 1 HDMI Splitter (1x in, 2x out) | ☐
| 1 Laptop | ☐
| 1 Scoreboard keyboard | ☐
| HDMI cables | ☐
| 1 Big active speaker | ☐
| XLR audio cables (from laptop to backup speaker and venue mixer) | ☑

IJF USB DI box, Peavey USB-P
IT Requirements

Scoreboard operators

Scoreboard operators from local organiser:
- >=18 years old
- English speaking
- Judo referee license

Introduction and briefing:
New users: Day before start of competition at 19:00 in the venue
Experienced: First day of competition, one hour before start in venue

Checklist
- List of names of all scoreboard operators

Event Manager
Check carefully for ground loop hum and buzzing noises!

**Gong & Audio set-up**

- **XLR audio cables**
- **big active speakers** with amplifier at each mat, independent from mixer
- **Audio mixer**
- **Announcer**
- **Scoreboard**
- **Judogi control**
- **Warm-up**
- **Streaming Studio**
- **IUF USB DI box, Peavey USB-P**
- **Jack connector (¼ inch)**. All other connections by XLR

**Checklist**

- Venue speaker system
- Professional audio mixer, connected to venue speaker system
- Active speakers with amplifier at each mat
- XLR cables
- Jack connector (¼ inch)

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**IT Requirements**

- **Checklist**
- Venue speaker system
- Professional audio mixer, connected to venue speaker system
- Active speakers with amplifier at each mat
- XLR cables
- Jack connector (¼ inch)
Gong & Audio set-up

At each mat: Additional big active speakers with amplifier and XLR input
- Used solely for gong signals from each mat as backup
- Directly connected to DI boxes from scoreboard laptops
- Gong signal must be heard in venue with noisy crowd
Video signals from TV

All signals as HD-SDI with audio embedded!
Use HD-SDI repeater or BNC <-> optical fibre for long distances!

**Option 1: when TV is providing both front and opposite camera signals from all mats on all days**

- **Checklist**
  - HD-SDI video cables (RG59, 75 ohm) with BNC connectors
  - HD-SDI distributors
  - HD-SDI repeater / optical fibre converters
  - HD-SDI test monitor
  - Reserve: HD-SDI BNC cable role 100-200 m, BNC connectors & crimping tools
Video cabling organiser

Option 2: when TV is providing only front camera signals from all mats on all days

Use HD-SDI repeater or BNC <-> optical fibre for long distances!

Use high quality HD-SDI cables (RG59, 75 ohm)

Checklist

- HD-SDI video cables (RG59, 75 ohm) with BNC connectors
- HD-SDI distributors
- HD-SDI repeater / optical fibre converters
- HD-SDI test monitor
- Reserve: HD-SDI BNC cable role 100-200 m, BNC connectors & crimping tools
Use HD-SDI repeater or BNC <-> optical fibre for long distances!

HD-SDI video cameras with tripods needed for each mat

HD-SDI cables BNC

Checklist

- HD-SDI video cameras with tripods for each mat
- HD-SDI video cables BNC
- HD-SDI distributors
- HD-SDI repeater / optical fibre converters
- HD-SDI test monitor
- Reserve: HD-SDI cable role 100-200 m, BNC connectors & crimping tools

Use high quality HD-SDI cables (RG59, 75 ohm)
Video camera operators from organiser

**List of names of all camera operators**
- >=18 years old
- English speaking
- Judo background

**Introduction and briefing:**
First day of competition, one hour before start in venue

**When TV is providing only signals from front**
- With TV covering all mats:
  - 0x
  - 6x
  - 8x
- Without TV providing signals:
  - 0x
  - 8x
  - 12x

**With TV covering all mats**
- 0x
- 6x
- 8x
- 10x
- 18x
Streaming Studio

**Checklist TV**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Commentator box with intercom</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Headsets</td>
</tr>
</tbody>
</table>

- Video signals in HD-SDI with audio embedded:
  - Front cameras each mat
  - PGM dirty
  - PGM clean

**Checklist**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>Podium (with carpet) and stairs</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>Frame construction</td>
</tr>
<tr>
<td><strong>x</strong></td>
<td>Tables like in plan (number depends on size)</td>
</tr>
<tr>
<td><strong>6</strong></td>
<td>Turnable office chairs</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Normal chairs</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td>Barrier</td>
</tr>
</tbody>
</table>
**IT Requirements**

**Information system**

- **Referee Draw**: Field of play

- **Contest order**: Warm-up, Judogi control

- **Coach Assistant**: Warm-up

- **Live TV from each mat**: Warm-up, Judogi control

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**Checklist**

- LCD screens size 50" or more
- Touchscreens for coach assistant
- Laptops connected to local network
- HDMI cables
- Video cables

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Number of screens can be reduced by showing more than one mat on each screen. Number of laptops can be reduced by using HDMI splitters and long HDMI cables cloning the signals.

Signals and cabling done by organiser. IJF can provide HD-SDI signals from IJF Streaming Studio. HD-SDI to HDMI or analogue converters and cables needed.

Touchscreens recommended.
Referee Radio System

Only needed for countries where the IJF radios are not allowed to use!

- 7x Radios
- 14x Security headset
- 21x Charger
- 28x

Each tatami needs its own frequency!

Checklist
- [ ] Radios
- [ ] Security headset
- [ ] Charger
After competition is finished our teams still need time to finalise the work (interviews, video highlight editing, news uploading etc.)

Therefore, it is essential that **electricity**, **internet** and **lights** are kept on and intact until the last working person from IJF gives green light that it is no longer needed.

**Important:** Please inform all persons and companies involved in the dismantling on the last day!

Have the **save storage room** ready for all IJF IT equipment cases!

Make sure you have agreed with the logistic company the **pick-up time** of the IJF IT equipment!