The IT set-up is the **fundament** for a successful competition. These requirements will help to make your event successful. Please read & follow carefully!

- All requirements and specifications are based on several years of experience. 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!

- **Important**: These documents need to be **forwarded** to the responsible persons/companies in charge of fulfilment. The experts in each field need to have these requirements as soon as possible.

- Every installation needs to be done as early as possible in order that proper tests can be done and in case of problems fixed in time. Proper **priorities** need to be set.

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

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We are looking forward to a close cooperation and a perfect event!
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 pick-up after the event.

Before and after the event: the equipment needs to be stored and locked in the venue in a safe room.
IT Requirements

Accreditation cards and lists

Organiser sends to IJF:

- Logos:
  - Event
  - Federation
  - Local sponsors

- Responsible Persons (printed on back of card):
  - General organisation: Mr. A +12 34 56 77
  - Accommodation: Ms. B +12 34 56 78
  - Transport: Mr. C +12 34 56 79

IJF finalises the card layout

Organiser gives final approval

IJF sends 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) must then be taken to the draw and then to the venue

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
<th>Details</th>
<th>Checklist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color laser printer</td>
<td>2</td>
<td>20 ppm or faster, network connection</td>
<td>✔</td>
</tr>
<tr>
<td>Complete set of toner</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy machine</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laminating machines</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper cutter</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hole puncher</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lanyards*</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper A4*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laminating pouches*</td>
<td></td>
<td>Exact size: 154x111 mm</td>
<td></td>
</tr>
<tr>
<td>Lanyards*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-outlet power strips</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless Internet</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Numbers depending on participation. Please plan a big reserve
### IT Requirements

#### Draw Technical table

<table>
<thead>
<tr>
<th>Checklist</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Projector (VGA input, 3000 ANSI Lumen or more)</td>
<td>✓</td>
</tr>
<tr>
<td><strong>2</strong> LCD Screens* (50&quot;, VGA)</td>
<td></td>
</tr>
<tr>
<td><strong>1</strong> VGA switcher (3x VGA in, 1x VGA out, seamless switching)</td>
<td></td>
</tr>
<tr>
<td><strong>1</strong> VGA splitter (1x VGA in, 3x VGA out)*</td>
<td></td>
</tr>
<tr>
<td><strong>6</strong> Cabled microphones</td>
<td></td>
</tr>
<tr>
<td><strong>2</strong> Wireless microphones</td>
<td></td>
</tr>
<tr>
<td><strong>1</strong> Audio mixer (+cables)</td>
<td></td>
</tr>
<tr>
<td>**Speakers (+cables)</td>
<td></td>
</tr>
<tr>
<td><strong>3</strong> Audio cables from laptops to mixer</td>
<td></td>
</tr>
<tr>
<td><strong>3</strong> Ground loop isolators (for audio signal from laptops)</td>
<td></td>
</tr>
<tr>
<td>*<em>VGA cables</em></td>
<td></td>
</tr>
<tr>
<td>**Wireless Internet</td>
<td></td>
</tr>
<tr>
<td><strong>2</strong> Copy machines (50 ppm or faster, with sorting function)</td>
<td></td>
</tr>
</tbody>
</table>

* depending on room size more screens, splitters and VGA cables are needed

The same printers (plus toners) must then be taken to the venue.
**Power for Referee Replay + Streaming**

6x Uninterruptible Power Supplies (UPS):
- Min. power each UPS: 980 Watts / 1440 VA
- Waveform Type: pure Sine wave

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

min. 40x Multi-outlet power strips:
- With 3 or more plugs each

**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>40+</td>
<td>Multi-outlet power strips</td>
</tr>
<tr>
<td>3</td>
<td>Power cable extension</td>
</tr>
</tbody>
</table>
IT Requirements

Electricity points

**Cameras**

**Cameras+screens**

**Event IT**

**Athletes entrance**

**Judogi control**

**Warm-up area(s)**

**Each place on podium(s) with power**

**Do not cascade too many multiplugs!**

**IJF Streaming Studio**

**TV crew**
**IT Requirements**

### Laptops

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

**Operating System Requirements:**
- MS Windows 10
- 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/powersaver disabled
- Reduced screen brightness on battery

**Equipment Expert**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6x</td>
<td></td>
</tr>
<tr>
<td>9x</td>
<td></td>
</tr>
<tr>
<td>12x</td>
<td></td>
</tr>
<tr>
<td>15x</td>
<td></td>
</tr>
</tbody>
</table>

**local IP 192.168.2.x**

<table>
<thead>
<tr>
<th>Location</th>
<th>x</th>
</tr>
</thead>
<tbody>
<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>
<tr>
<td>CARE laptops</td>
<td>41, 42, 43,...</td>
</tr>
<tr>
<td>Replay machines</td>
<td>51, 52, 53,...</td>
</tr>
</tbody>
</table>

**Subnet:** 255.255.255.0  
**Gateway:** empty  
**DNS:** empty
Monitors for Referee Replay + Streaming

12x

All TFT monitors:
- **Size:** 23”-26”
- **Resolution:** 1920x1080 Full HD
- **Format:** 16:9
- **Inputs:** DVI and HDMI

**Checklist**
- **12** Full-HD TFT Monitors with DVI and HDMI input
Local Network

All cables labelled at central switch!

Local network must be physically separated from Internet network.

Each cable from **scoreboard** laptops and event IT must be **direct**, no switch in between!

**Checklist**

- CAT-5 Network cables: ✔
- 5 Switches: □
- Reserve cable role, R45 plugs and crimping tools: □
IT Requirements

Local Network

Network switches

| SW1 | IJF main local switch located at IJF streaming studio (24 port by IJF) |
| SW2 | Judogi-control local switch located at judogi control (8 port) |
| SW3 | Warm-up area local switch located at warm-up area (8 port) |
| SW4 | Middle-mat local switch located on middle mat (8-16 port) |
| SW5 | Optional: TV-graphics local switch (4 port) |

Order of cabling

1. Cable from main local switch to event IT management place
2. Cables from main local switch to scoreboard laptops mat 1, mat 2, mat 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 CARE laptops and IJF replay machines on mats 1, 2, 3, ...
9. Cable and back-up cable from main local switch to TV-graphics place (using additional switch if distance too long)
10. Cable from main local switch to IJF video team place

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

Internet speed – dedicated to IJF exclusive:
- Download speed: **100 MBit/s** or more
- Upload speed: **100 MBit/s** or more
  (Speed must be tested to Frankfurt using www.speedtest.net)

**Checklist**

<table>
<thead>
<tr>
<th>Item</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT-5 Network cables</td>
<td>☑️</td>
</tr>
<tr>
<td>3 Switches</td>
<td>☐</td>
</tr>
<tr>
<td>Reserve cable role, R45 plugs and crimping tools</td>
<td>☐</td>
</tr>
</tbody>
</table>

**Internet for Media/others is handled by organiser.**

**Internet line must be ready for test two days before start of event.**

**All Internet connections need to be wired. Additionally IJF will create own wireless network.**
## IT Requirements

### Internet Network

<table>
<thead>
<tr>
<th>Network switches</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SW6 IJF main internet switch</td>
<td>located at IJF streaming studio (by IJF)</td>
</tr>
<tr>
<td>SW7 Middle-mat internet switch</td>
<td>located on middle mat (8 port)</td>
</tr>
<tr>
<td>SW8 Staff internet switch</td>
<td>located at IJF staff place (8 port)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order of cabling</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Cable from main internet switch to middle-mat internet switch</td>
<td></td>
</tr>
<tr>
<td>12 Cables from middle-mat internet switch to speakers place</td>
<td></td>
</tr>
<tr>
<td>13 Cables from middle-mat internet switch to IJF media place</td>
<td></td>
</tr>
<tr>
<td>14 Cable from middle-mat switch to event management place</td>
<td></td>
</tr>
<tr>
<td>15 Cable from middle-mat internet switch to staff internet switch</td>
<td></td>
</tr>
<tr>
<td>16 Six cables from staff internet switch to nearby IJF staff places</td>
<td></td>
</tr>
<tr>
<td>17 Cable from main internet switch to IJF TV crew place</td>
<td></td>
</tr>
<tr>
<td>18 Cable from middle-mat internet switch to judogi-control area</td>
<td></td>
</tr>
</tbody>
</table>

**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!
Scoreboard Setup

Equipment

- LED Screen 55" or bigger 16:9, VGA/HDMI input
- LED board controller
- Converter VGA/HDMI to LED board input (if needed)
- VGA/HDMI Splitter (1x in, 2x out)
- Laptop
- Scoreboard keyboard
- VGA/HDMI cables
- Big active speaker
- Audio cables (from laptop to backup speaker and venue mixer)

Checklist

1. LED Screen 55" or bigger 16:9, VGA/HDMI input
   - ✔
2. LED board controller
   - ☐
3. Converter VGA/HDMI to LED board input (if needed)
   - ☐
4. VGA / HDMI Splitter (1x in, 2x out)
   - ☐
5. Laptop
   - ☐
6. Scoreboard keyboard
   - ☐
7. VGA/HDMI cables
   - ☐
8. Big active speaker
   - ☐
9. Audio cables (from laptop to backup speaker and venue mixer)
   - ☐

Connection from laptop via VGA or HDMI out

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

MS Windows 10 required!

IJK USB DI box, Peavey USB-P

Backup speaker

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

Introduction and briefing:
Day before start of competition at 19:00 in the venue
IT Requirements

Gong & Audio cabling

<table>
<thead>
<tr>
<th>Checklist</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Venue speaker system</td>
</tr>
<tr>
<td>1 Professional audio mixer, connected to venue speaker system</td>
</tr>
<tr>
<td>x Active speakers with amplifier</td>
</tr>
<tr>
<td>XLR cables</td>
</tr>
</tbody>
</table>

x = number of tatami (+reserve)

- IJF USB DI box, Peavey USB-P
- big active speakers with amplifier at each mat, independent from mixer
- XLR cables

Audio mixer connected to speaker system in the venue

IJF Streaming Studio
Gong & Audio cabling

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 cabling organiser**

**Referee Replay + Streaming**

- HD-SDI video cables (RG59, 75 ohm) with BNC connectors
- HD-SDI Distributors
- HD-SDI repeater / optical fibre converters
- HD-SDI video isolators
- Reserve: HD-SDI BNC cable roll 100-200 m, BNC connectors & crimping tools

Use HD-SDI repeater or BNC <-> optical fibre for long distances!
**Video camera operators**

**Referee Replay + Streaming**

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3x</td>
<td>6x</td>
<td>9x</td>
<td>12x</td>
</tr>
</tbody>
</table>

**Camera operators from local organiser:**
- >=18 years old
- English speaking
- Judo background

**Introduction and briefing:**
Day before start of competition at 19:00 in the venue

**Checklist**
- List of names of all camera operators
IT Requirements

Video signals from TV

Referee Replay + Streaming

Checklist

| HD-SDI video cables (RG59, 75 ohm) with BNC connectors | ☑ |
| HD-SDI Distributors | ☐ |
| HD-SDI repeater / optical fibre converters | ☐ |
| HD-SDI video isolators | ☐ |
| 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 cables

HD-SDI Distributors

HD-SDI repeater / optical fibre converters

HD-SDI video isolators

Reserve: HD-SDI BNC cable role 100-200 m, BNC connectors & crimping tools

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

**Checklist**

1. Podium (with carpet) and stairs
2. Normal chairs
3. Turnable office chairs
4. Frame construction for IJF reflecting linen cloth

**IT Requirements**

- Video connection to LED wall/cube
- Audio connection to venue speakers

**Dimensions**

- Width: 5.00 m
- Height: 2.00 m (from podium)
- Depth: 0.80 m

**Notes**

- Tables like in plan (number depends on size) with table-cloths
Information system

- LCD Screens
  - Size 50" or more
- Touchscreens
- Laptops connected to local network
- VGA/HDMI cables
- Video cables

Number of screens and laptops depends on number of stations. See also „Local Network“ sheet for cable connections.

Checklist:
- [x] LCD Screens
- [ ] Size 50" or more
- [ ] Touchscreens
- [ ] for coach assistant
- [ ] Laptops connected to local network
- [ ] VGA/HDMI cables
- [ ] Video cables

Referee Draw
Contest order
Coach Assistant
Live TV from each mat

- Field of play
- Judogi control
- Warm-up
- Warm-up
- Warm-up

2x
1-2x
1 per mat

2x per mat

Number of screens can be reduced by showing more than one mat on each screen.
Number of laptops can be reduced by using VGA/HDMI splitters at judogi control and long VGA/HDMI cables to warm-up area, cloning the signals.

Touchscreens recommended

Signals and cabling done by the organiser. IJF can offer to provide HD-SDI signals from IJF Streaming Studio place. HD-SDI to HDMI or analogue converters and cables for each mat would be needed in this case.
Referee Radio System

Each tatami needs its own frequency!
After the 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!