

We have carried out all the steps so far for the competition in TAF 3. That means in the "main programme".

In addition to this, other external modules are installed during the installation, which are "specialists" for the execution of a certain function and therefore have a reduced user interface.

These are (in alphabetical order)

- **Display Board Server / LiveBoard**
- **Stellplatzmanager**
- **Technical Client**
- **Timing Client**
- **WebTeC**

The client that is used by most users is probably the Timing Client (TiC) for connecting computer-aided electronic timing systems.

By using the Timing Client, a lot of work can be saved in the competition office and at the same time the data quality of the competition can be increased and the process can also be accelerated.

Especially when it comes to quickly publishing the results of preliminary or intermediate heats so that the athletes who are allowed to run again in the following round are informed about them, it is indispensable to record the data directly at the timekeeping evaluation - or better, to transfer them directly.

The screenshot shows the TAF Timing Client Version 3.1.0.4205 interface. The main window displays a table of race results for a 60m race. The table has columns for Position (Pos.), Start Number (StNr), Name, Best time, Vw (Vorderzeit), Rg (Rang), Q (Qualifikation), and Kommentar. The data is as follows:

Pos.	StNr	Name	Best	Vw	Rg	Q	Kommentar
2	83	Salla Armin	7,253		5		
3	301	Hieronymi Lars	7,001		2	q	
4	81	Schmid Niklas	7,206		3		
5	294	Kölsch Daniel	7,000		1	Q	
6	39	Scheschonk Tim	7,499		6		
7	147	Ippen Philipp	7,226		4		

The interface also shows a sidebar with a list of races, including 60m and 400m events for men and women. The bottom of the screen shows the Windows taskbar with the search bar and system tray.

The "Timing Client"

Of course, this also applies in a similar way to the Technical Client (TeC). However, at very few events there is the pressure of the time schedule with regard to the publication of the results.

If a system for electronic distance measurement is to be used, the TeC is the obvious choice because the EDM data can be sent directly to the TeC, thus eliminating an error factor. An anemometer / wind gauge can also be connected directly to the TeC.

For those who are afraid of the effort of cabling or setting up a reasonable WLAN to supply the notebook PCs at the competition facilities of the technical competitions, the WebTeC is an alternative - provided there is good mobile phone coverage. Here, data is collected via a web application that is directly connected to the server in the competition office.

With TiC as well as with TeC and WebTeC, the results - with an active LAPortal connection - are transmitted to the server on a run or trial basis and can thus be followed "live" via the internet.

The screenshot displays the TAF Technical Client software interface. The main window shows a table of results for the event "14:15 Weitsprung M Vor/Endkampf Gruppe 1". The table columns include position (Pos.), athlete number (StNr), name, and various jump measurements (V1-V6), best jump (Best), wind speed (Vw), and ranking (Rg.).

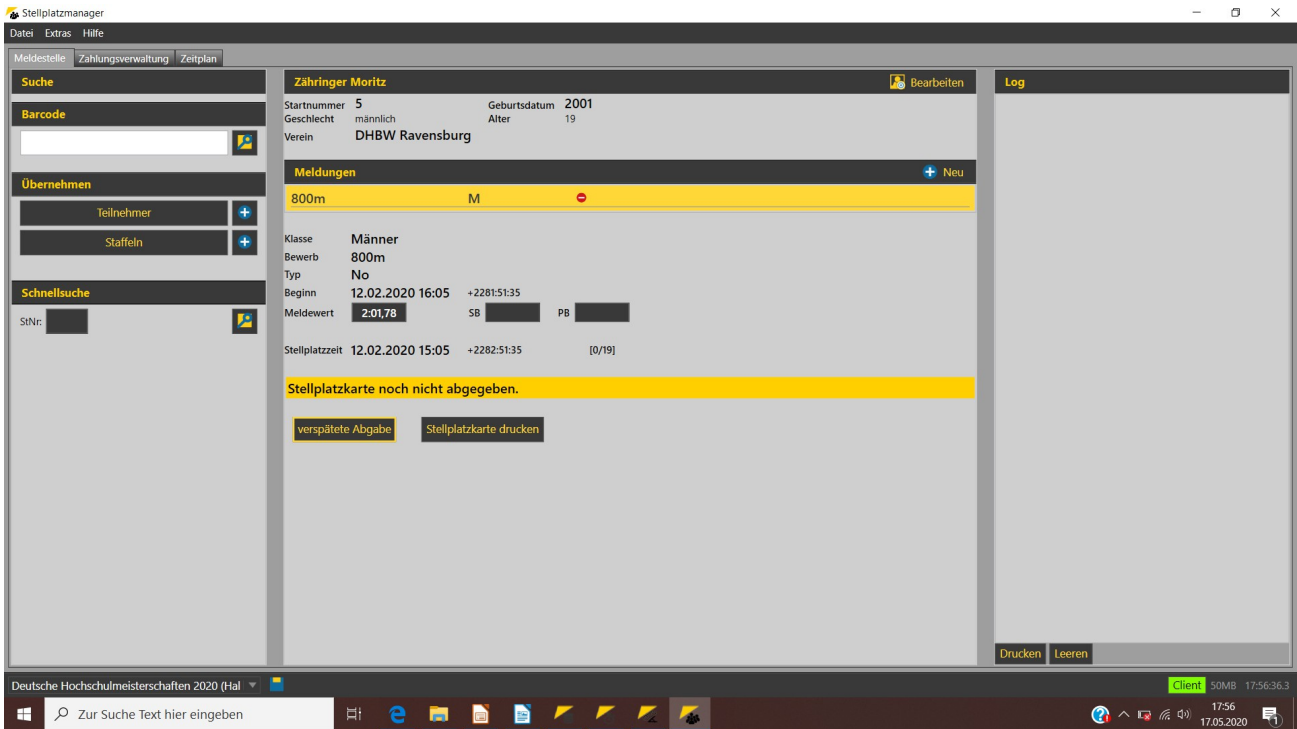
Pos.	StNr	Name	V1	V2	V3	V4	V5	V6	Best	Vw	Rg.	Kommentar
1	126	Sturm Daniel	6,09	6,20	-	x	6,33	x	6,33		6	
2	181	Grau Clemens-Jonathan	x	6,07	x	x	5,91	6,01	6,07		7	
3	118	Liefgen Nils	6,33	6,61	6,31	x	6,30	6,58	6,61		5	
4	35	Näckel Rouven	6,51	6,68	x	6,52	6,75	6,67	6,75		4	
5	48	Genz Lennart	6,50	6,78	x	6,74	6,75	6,70	6,78		3	
6	176	Brunken Jan	7,00	x	5,55	7,00	x	6,80	7,00		1	
7	23	Kirstges Marcel	x	x	x	x	x	6,99	6,99		2	

The interface also features a sidebar on the left with event schedules, a top menu bar with options like "Datei", "Bearbeiten", and "Einstellungen", and a bottom status bar showing the current time as 1:00.

The "Technical Client"

The “Registration Manager” is used to monitor the delivery of registration cards. A barcode or QR code printed on the card can be scanned. The handover is noted and a receipt can be printed out for the cards handed in.

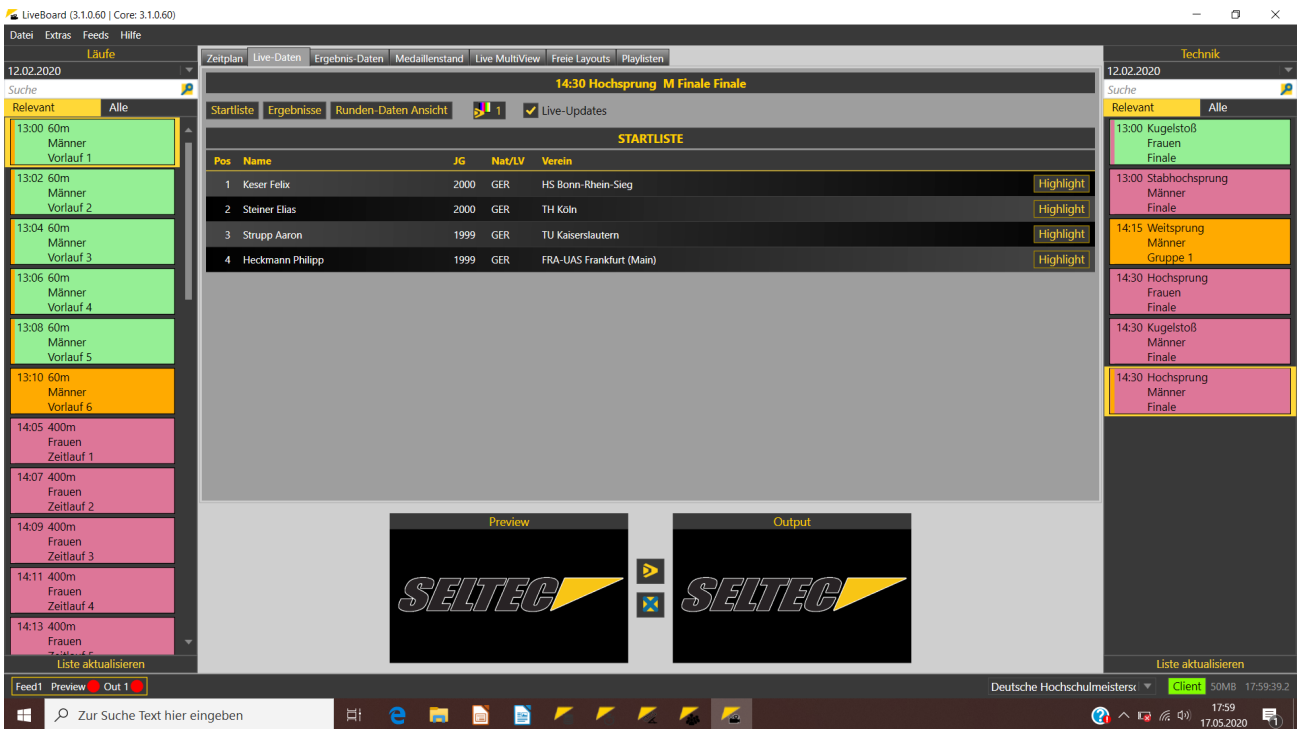
The employees at the TIC have an overview of the cards handed in at all times, can adjust entry values if necessary and also enter late registrations.



The “Registration Manager”

Displayboard / Liveboard are two components that are needed to output various event-related lists on a video wall (or similar).

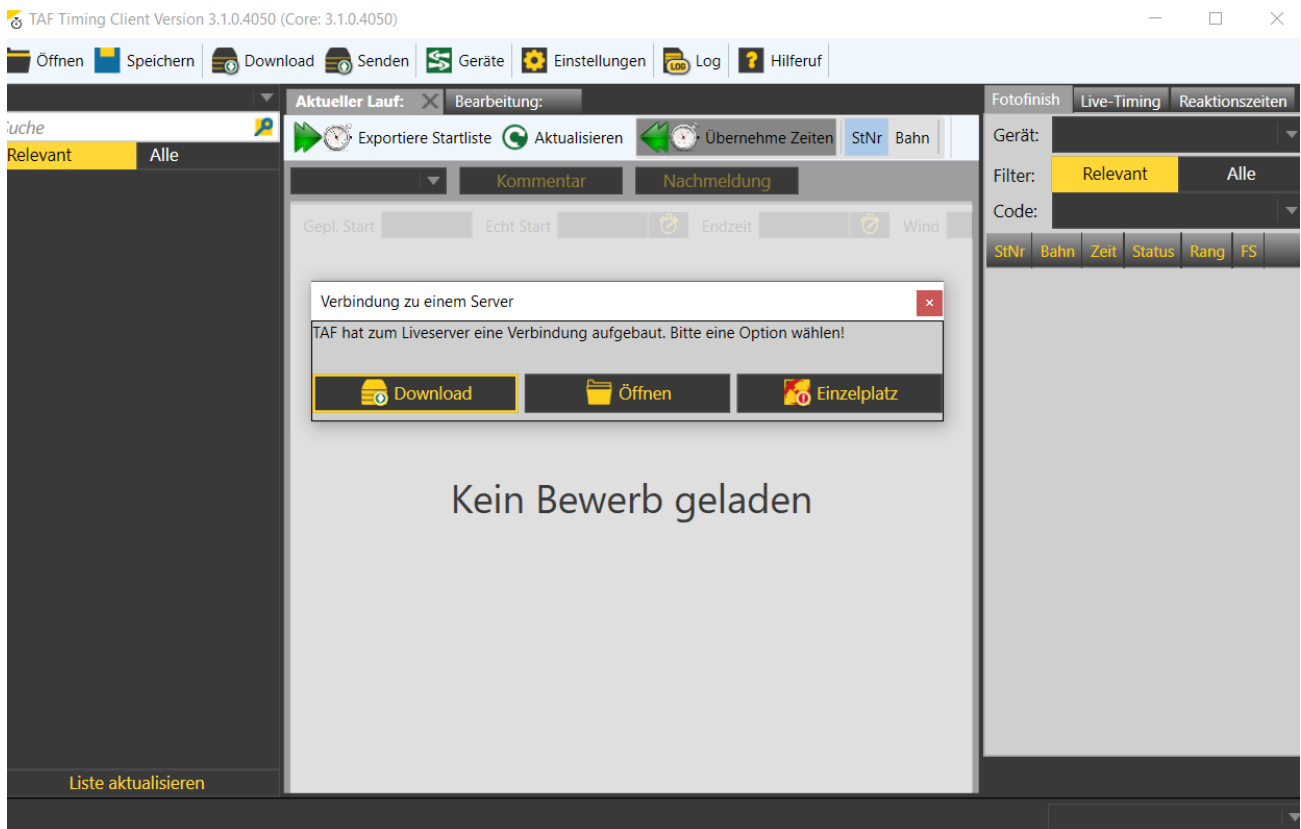
Displayboard provides the connection to the hardware, Liveboard can be used to control the output.



Liveboard with the currently relevant events

All modules are operated together with a TAF "live server" started in the competition office.

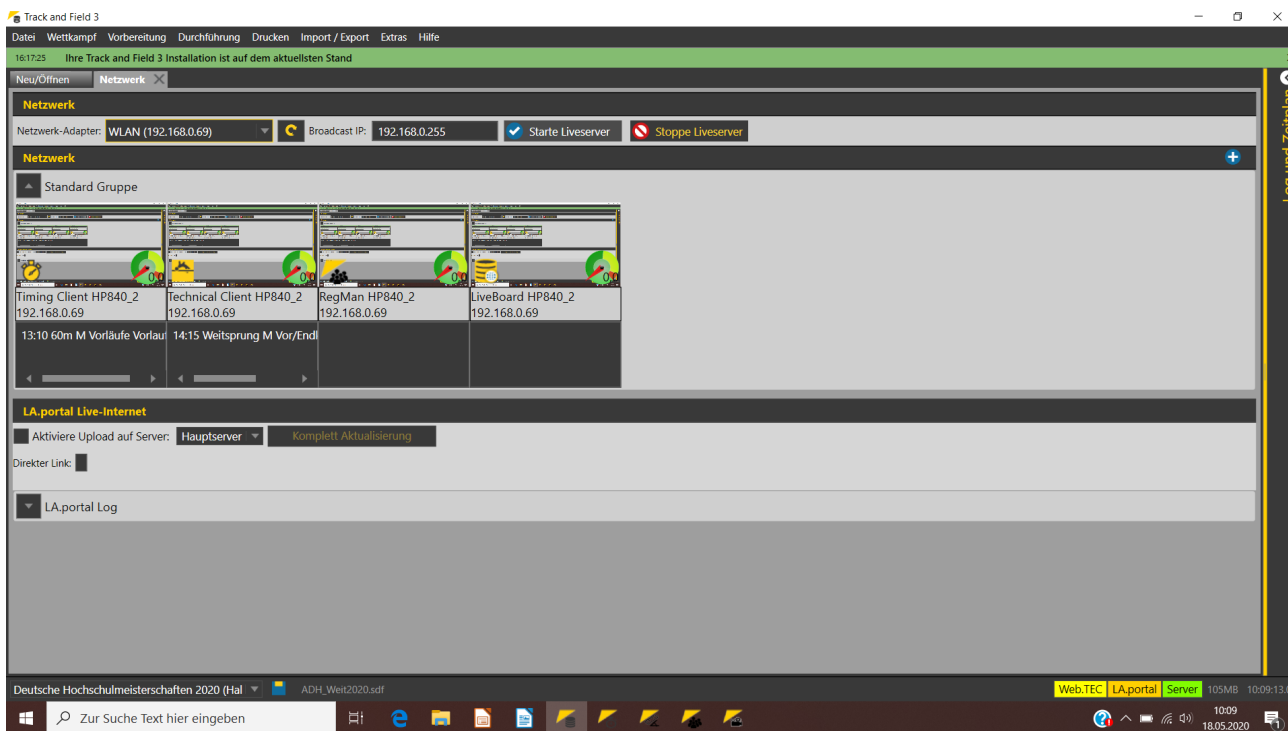
After starting a client, it recognises that a server is available in the network and downloads the competition database from it.



Timing Client after the start - ready to load the competition database from the server

The entries are then saved locally and, depending on the competition situation, immediately transferred to the server.

In the network tab of the server PC, you have an overview at all times of which computers / clients are connected to the server and what the status of the connection is. Specifically, the time since the last unsuccessful contact attempt between server and client is displayed.



Network-Tab showing 4 clients with active connections

In the following parts of the "Step by Step" series we will go into more detail about the individual external clients.