

## TP4Webserver (Webserver for use with TaekoPlan v4)

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by SenSoft Automation

TP4Websever is the application that handles all communication between TaekoPland and the scoreboard systems. It also sends the data for the World Taekwondo Realtime Display.

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Jaekoplan Sensott

## 1 Introduction

TP4Webserver is the application that controls are the traffic over the network between the scoreboard systems (Daedo TKStrike or KP&P) and TaekoPlan as well as the communication between the webserver and WT RTDS (Realtime display). Additionally it can send data to any external source or the Callerdata Android app.



## 1.1 Main screen

To be able to run the TP4Webserver you need to setup the parameters required.

The main setup screen is as shown below:

Plan4 webserver 1.3.1.0 aekoPlan				
aekoPlan				-
	v4 Webserve	er	aeko	las
ament selection External setup	Communication		SenSoft Vau	omation
ata folder D:\Taeko	PlanNETData\events2022	× Apply		
ournament 51 9th To	urkish Open 2022 (08-02 upto 13-02 2022)	•		
lect date 10-02-2	•			
tegorygroup Cadets/J	uniors /Conjors			

There are three tabs: Tournament selection, External setup and Communication.

#### 1.1.1 Tournament selection

On this tab you can select which tournament will be used as source for the data communication.

Tournament selection	External setup Communication		< > X
Data folder	D:\TaekoPlanNETData\events2022	X Apply	
Tournament	51 9th Turkish Open 2022 (08-02 upto 13-02 2022)	Ŧ	
Select date	10-02-2022 *		
Categorygroup	Cadets/Juniors/Seniors	•	
	K WORLD		Start scoreboard
Daedo	TAEKWONDO		Start webservice

#### Data folder

This is the folder where the tournament of TaekoPlan is stored. By clicking the ... button you can search for the correct folder.

After finding the right one, click on Apply to use this folder. The folder can be a local folder or a network share. The share needs to be setup before on the host system.

#### Tournament

Select here the tournament which is available in the folder. Your selection will be maintained after restarting.

#### Select date

Select here the date in the event to be used. This date will be used for all communication.

#### Categorygroup

In TaekoPlan you have created category groups which you can use for your sessions. Select here the applicable group to work with.

When you have set all these required parameters you can click the **Start webservice** button.

But be aware that the external setup needs to configured correctly before continuing.

#### 1.1.2 Communication

The third tab shows the status of the communication:

Tournament selection External setup Communication		* * X
	II NO DATA	Clear queues Clear text
12:09:21.236 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:21.268 /matches/517/actions		
12:09:21.290 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:21.489 /matches/616/actions		
12:09:21.549 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:21.641 /matches/419/actions		
12:09:21.705 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:22.162 /matches/318/actions		
12:09:22.217 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:22.266 /matches/517/actions		
12:09:22.329 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:22.496 /matches/616/actions		
12:09:22.542 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:22.624 /matches/419/actions		
12:09:22.654 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:23.159 /matches/318/actions		
12:09:23.174 http://192.168.10.5:9001/ RTDS1 Data sent		
12:09:23.283 /matches/517/actions		
12:09:23.294 /matches/517/actions		
12:09:23.334 http://192.168.10.5:9001/ RIDS1 Data sent		
12:09:23.396 http://192.168.10.5:9001/ RIDS1 Data sent		
12:09:23:493 /matches/b1b/actions		
12:09:23.558 http://192.108.10.5:9001/ RIDS1 Data sent		
12:09:23.080 /matches/419/actions		
12:09:23:021 http://192.108.10.0:9001/ KTDS1 Data sent		

In this example the NO DATA slider is set to off, so only basic information is shown.

Introduction	11
--------------	----

III NO DATA			
Tournament selection Extern	al setup Communication		< + ×
		III NO DATA	Clear queues Clear text
12:08212.26 http://192.168. 12:09212.80 http://192.168. 12:09212.80 http://192.168. 12:09212.80 http://192.168. 12:09212.489 http://192.168. 12:0922.149 http://192.168. 12:0922.161 /matches/419/ 12:0922.216 /matches/319/ 12:0922.216 /matches/319/ 12:0922.226 /matches/319/ 12:0922.262 /matches/319/ 12:0922.262 /matches/319/ 12:0922.262 /matches/319/ 12:0922.263 /matches/319/ 12:0922.263 /matches/319/ 12:0922.263 /matches/319/ 12:0922.263 /matches/319/ 12:0922.264 /matches/319/ 12:0922.264 /matches/319/ 12:0922.263 /matches/319/ 12:0922.264 /matches/319/ 12:0922.264 /matches/319/ 12:0922.264 /matches/319/ 12:0922.263 /matches/319/ 12:0922.263 /matches/319/ 12:0922.263 /matches/319/ 12:0922.263 /matches/319/ 12:0922.264 /matches/319/ 12:0922.264 /matches/319/ 12:0922.264 /matches/319/ 12:0922.265 /matches/419/ 12:0922.362 /matches/419/ 12:0922.362 /matches/419/ 12:0922.362 /matches/419/	0.59001/ RTDS1 Data sent ctions 0.59001/ RTDS1 Data sent ctions		1

When you set the NO DATA slider to the right, the output will be different:

Tournament selection External setup Communication		* > X
	SHOW DATA	Clear queues Clear text
<pre>"penalties": {     "home": 6,     "away": 2     ,     "description": "UNCONFIRMED",     "position": 326,     "status": "UNCONFIRMED",     "timestamp": 2022-02-10T11:09:08+02:00"     "feationships": {         "dimestamp": 2022-02-10T11:09:08+02:00"         "feationships": {         "dimestamp": 2022-02-10T11:09:08+02:00"         "formeCompetitor": {         "dimestamp: "UNE-15444",         "type: "competitors"         }       }     } } </pre>		1

Now all data is shown. This makes it easy to check if data is received in a proper way.



Click this button to clear the textbox.

Clear queues

Click this button to clear the queues. This is a different behavior as just clicking the **clear text** button.

This clears the communication queues and restarts them at 0.

#### 1.1.3 External setup

This tab provides you the settings for the communication to work properly.

Tournament selection	External setup Communication					< > X
RTDS URL 1	http://localhost	RTDS 1 port	9001	Time-out	200 •	IP address 192.168.1.5 • Port 9005
RTDS URL 2		RTDS 2 port	9002	Time-out	500 •	Courts 6 * Scrolling Court 6-10 *
External URL		External port	9003	Time-out	500 <b>•</b>	RTDS URL is IP Address of remote RTDS computer and the port equals port on both sides
TaekoPlan URL	http://localhost	TaekoPlan port	8089	Time-out	100 •	World Taekwondo Protocol Web Server
Show category in scoreboard as Android Caller port (v1.3+) No. of fights sent or matches request	WT Protocol naming	Daedo and KP&P S In TKStrike or KP&F http://192.168.1.5:8	coreboard data po ? use the following 086	ort g URL to conne	8086 ct:	Port for velocine     Date       B88     Jagend Drägend Orlägend OrlägendOrlägend OrlägendOrlägendO
IP Address of this computer for remot connections	e 192.168.1.5 +					XAP+REY disable Test Connection The IP address of the WT OVR configuration should point to the TP4Webserver computer and NOT to the TaekoPlan computer (unless they are running on the same machine)

Below are the parameters explained in detail:

#### **RTDS URL 1**

This is the URL which defines the connection to the WT RTDS computer. Use the HTTP:// prefix combined with the IP address of the computer involved. This is not your local IP addresss but the one from the other system.

#### **RTDS 1 Port**

This is the port which is being used for sending the data to the RTDS. Use this port also in the setup for the RTDS.

#### Time-out

This is the time-out in milliseconds for the communication.

#### **RTDS URL 2**

This is the URL which defines the connection to the WT RTDS computer. Use the HTTP:// prefix combined with the IP address of the computer involved. This is not your local IP addresss but the one from the other system.

#### **RTDS 2 Port**

This is the port which is being used for sending the data to the RTDS. Use this port also in the setup for the RTDS.

#### Time-out

This is the time-out in milliseconds for the communication.

You have two RTDS URL's to use. You can also select the first URL and in the RTDS application you can use the link-through option to chain several RTDS systems or use the NDI connection to use more screens on different places.

#### **External URL**

This is the URL which defines the connection to an external target system. Use the HTTP:// prefix combined with the IP address of the computer involved. This is not your local IP addresss but the one from the other system.

#### **External Port**

This is the port which is being used for sending the data to the external system. Use this port also in the setup from the external system.

#### Time-out

This is the time-out in milliseconds for the communication.

#### TaekoPlan URL

This is the URL which defines the connection to the TaekoPlan computer. Use the HTTP:// prefix combined with the IP address of the computer involved.

This is not your local IP addresss but the one from the system on which you have TaekoPlan running

#### **TaekoPlan Port**

This is the port which is being used for sending the data to the TaekoPlan system. Use this port also in the webserver setup from TaekoPlan.

World Taekwondo Protocol Web Server							
Port for webserver Categorygroup Date	Clear buffer Clear text Start webserver						
8088 Cadets/Juniors/Seniors V 10-02-2022 V	Queue: 0 • NO DATA Stop webserver						
14:26:35:298 /matches/623/results/ 14:28:08:549 /matches/426/results/ 14:29:21:600 /matches/325/results/ 14:29:27:254 /matches/225/results/	I						

TaekoPlan will only receive results from the webserver, no other data. The TaekoPlan port should always be different from the TKStrike port! The data received is different and needs to be processed differently.

#### **Time-out**

This is the time-out in milliseconds for the communication.

#### Daedo and KP&P scoreboard data port

This is the port used in the WT OVR configuration of TKStrike:



or in the KP&P application:

onfiguration		S	etting			
Rule	Extern	al Divi	Base URL	http:// <your_i< th=""><th>paddress&gt;:80x</th><th>x e.a. 8085</th></your_i<>	paddress>:80x	x e.a. 8085
OVR			X-API-Key		,	
Supplier		SICC				
Communicat	ion Type	TCP/IP				
	[	Only M			Okay	Cancal
Pre-Regis	stration	Settin			Undy	Gancer
🗹 Use WT	Protocol	Setting		Connect Test		

You only have to specify the port as the URL is set in TKStrike or in the KP&P application. The scoreboard system is the server in this communication.

When connected you should always see the status and OK messages coming in the communications tab.

If you only see the status message, it means that there is NO two-way traffic possible. You may need to check your firewall or select a different port.

#### Show category in scoreboard as

In the embedded scoreboard you can see the category name. You can select either the WT Protocol naming or the full category name.

WT Protocol naming	•
WT Protocol naming	
Full category name	

#### Android Caller port (v1.3+)

This is the port used for communicating with the Caller app on your Android device.

#### No. of fights sent on matches request

This is the number of fights sent to the TKStrike or KP&P system after a request comes in from a court. The maximum is 10 fights.

#### 1.1.4 Scoreboard

The TP4webserver has an internal scoreboard which can be shown on your screen.

Actual scores on the courts					_ <b>-</b> ×
🛛 🗱 Exit 🕜 Help					
Court 1 Category	000 Rondenaam	GAM Score JEOM	Court 4 WOMEN -46kg	419 QF	GAM Score JEOM
Bound			C+ KAVURAT Sila me	00:49	2 2 13 2
Court 2	210		Court 5	E19	KUNINING
WOMEN -63kg	QF	GAM Score JEOM	WOMEN -55kg	Round of 16	GAM Score JEOM
C* KURT Nehir		0 0	C* SAHIN Nisanur		0 0
MARIC Ela		0 0	C* CINAR Sewal		0 0
Round 1 Time	01:30	MATCH LOADED	Round 1 Time	01:26	RUNNING
Court 3 WOMEN -52kg	319 Round of 16	GAM Score JEOM	Court 6 WOMEN -49kg	616 Round of 16	GAM Score JEOM
TURKKOLU Fatma	belinay	0 0	CETIN Zeynep me	ryem	9 0
C* DILER Ruya		0 0	C* KARAKAS Hawa r	iisa	0 1
Round 1 Time	01:30	MATCH LOADED	Round 3 Time	00:13	

This shows you all courts and the current scores, rounds, round-times etc. To start the scoreboard, click the button

Start scoreboard

on the Tournament selection tab.