



TP4Webserver (Webserver for use with TaekoPlan v4)

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TP4Webserver 2023

by SenSoft Automation

TP4Webserver is the application that handles all communication between Taekwondo and the scoreboard systems. It also sends the data for the World Taekwondo Realtime Display.

TP4Webserver 2022

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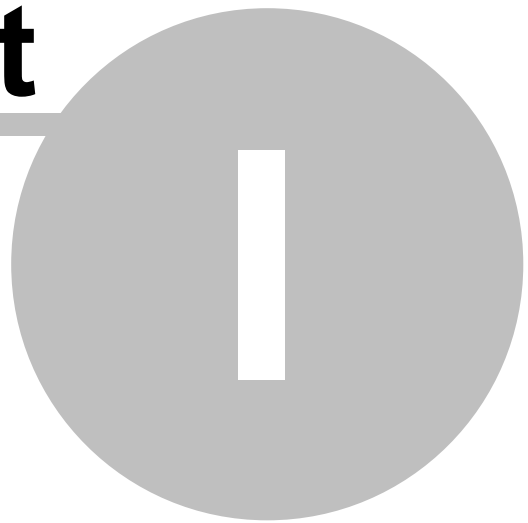
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TP4Webserver 2023

Part



1 Introduction

TP4Webserver is the application that controls 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.

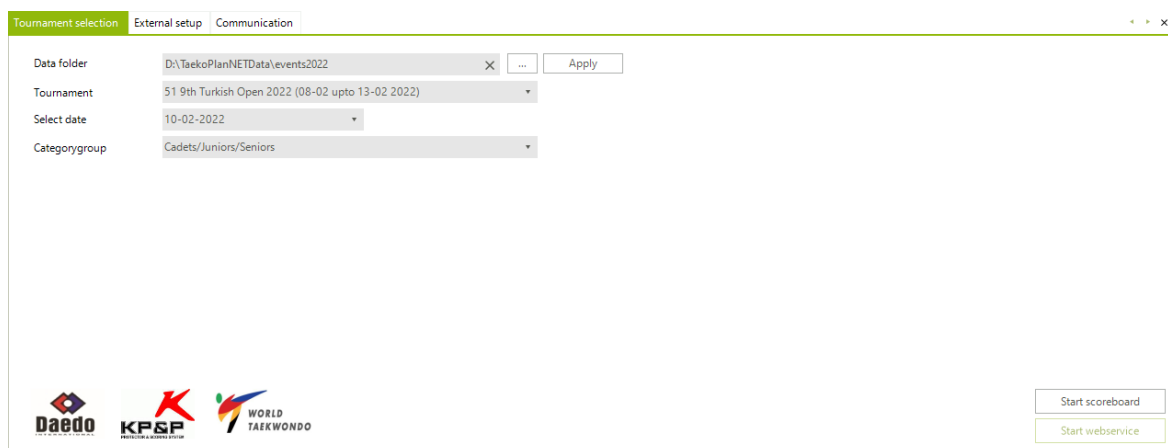
The main setup screen is as shown below:



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.



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

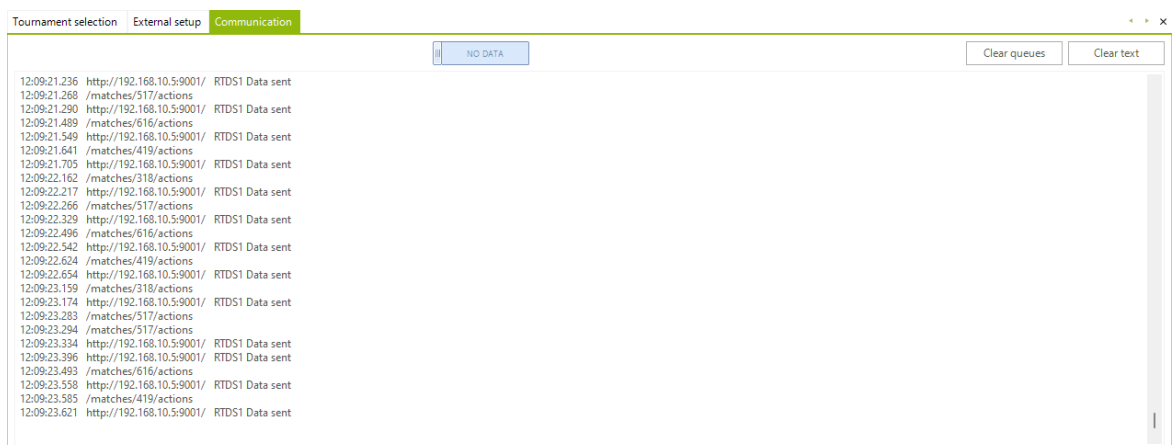
In TaekoPlan you have created category groups which you can use for your sessions. Select here the applicable group to work with.

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

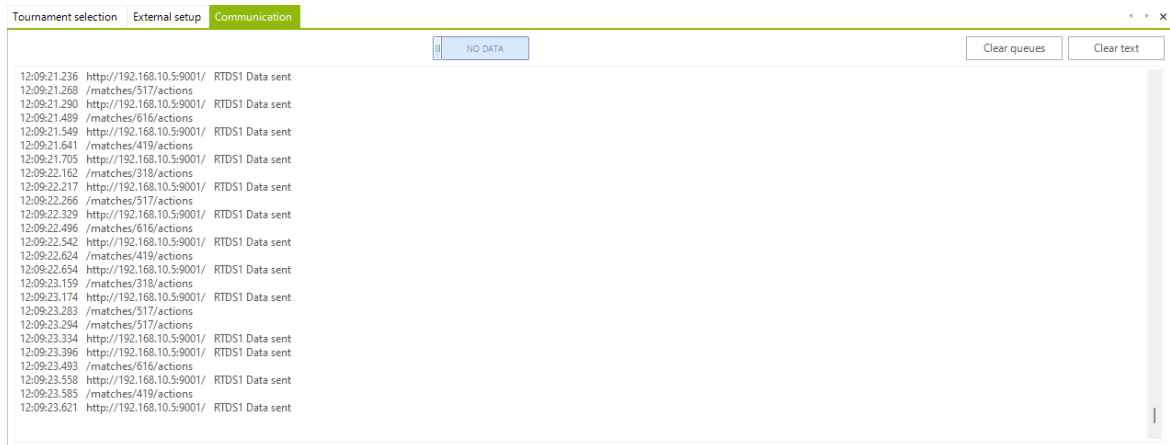
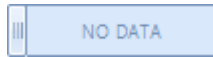
But be aware that the external setup needs to be configured correctly before continuing.

1.1.2 Communication

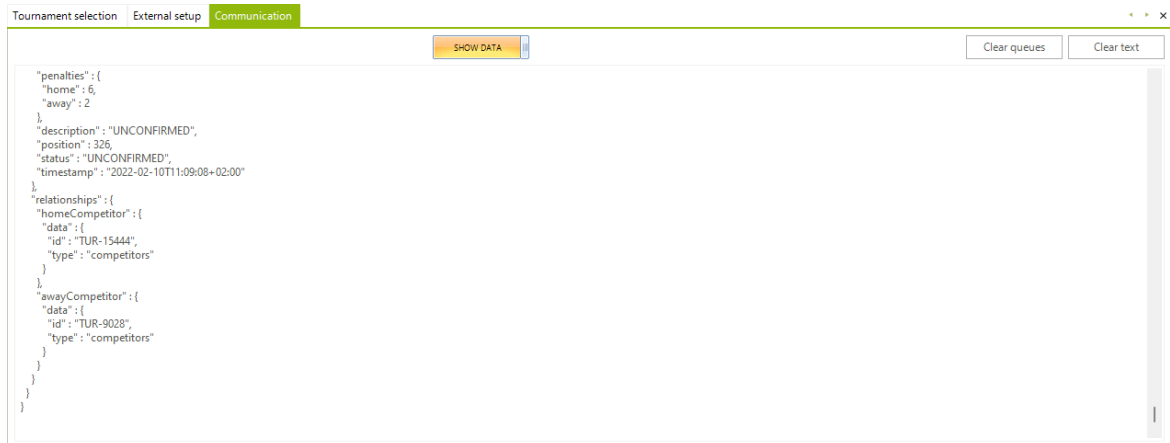
The third tab shows the status of the communication:



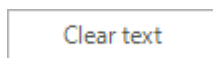
In this example the NO DATA slider is set to off, so only basic information is shown.



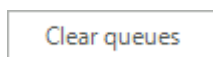
When you set the NO DATA slider to the right, the output will be different:



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.



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.

The screenshot shows the 'External setup' tab of the TP4Webserver configuration interface. It contains several sections for configuring communication parameters:

- RTDS Configuration:**
 - RTDS URL 1:
 - RTDS URL 2:
 - RTDS 1 port: Time-out:
 - RTDS 2 port: Time-out:
- External Configuration:**
 - External URL:
 - External port: Time-out:
- TaekoPlan Configuration:**
 - TaekoPlan URL:
 - TaekoPlan port: Time-out:
- Other Settings:**
 - Show category in scoreboard as:
 - Android Caller port (v1.3+):
 - No. of fights sent on matches request:
 - IP Address of this computer for remote connections:
 - Daedo and KP&P Scoreboard data port:
- World Taekwondo Protocol Web Server:**
 - Port for webserver: (highlighted with a green arrow)
 - Categorygroup:
 - Date:
- WT OVR Configuration:**
 - URL:
 - Test Connection button

Notes and warnings in the interface:

- RTDS URL is IP Address of remote RTDS computer and the port equals port on both sides
- In TKStrike or KP&P, use the following URL to connect: <http://192.168.1.5:8086>
- X-API KEY disabled
- 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 address 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.

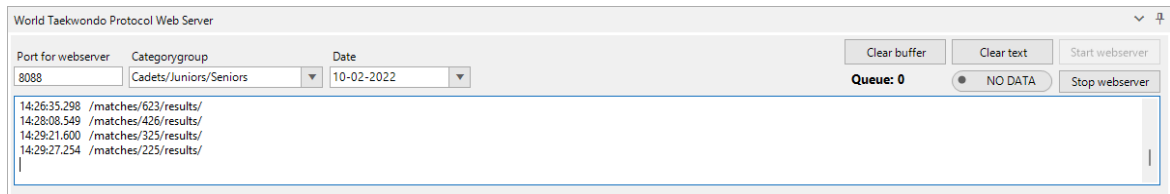
TaekoPlan URL

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.



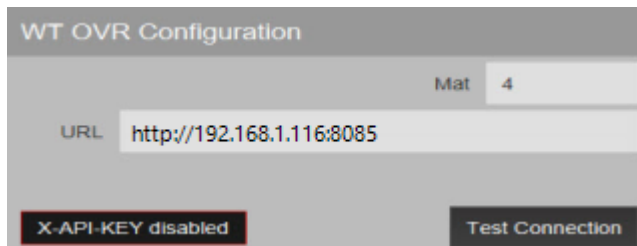
TaekoPlan will only receive results from the webserver, no other data.
The TaekoPlan port should always be different from the TKStrike port!
The data received is different and needs to be processed differently.

Time-out

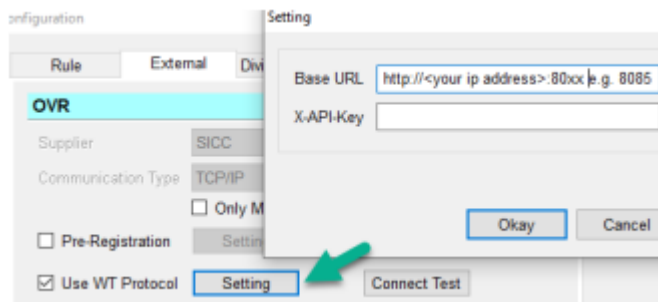
This is the time-out in milliseconds for the communication.

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:



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.

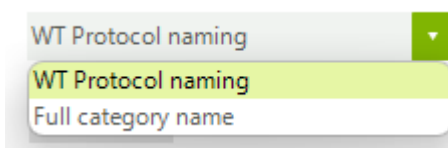
When connected you should always see the status and OK messages coming in the communications tab.

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.



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.



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.