

LIVE TV REAL TIME UDP PROTOCOL



3 characters based with semi-colon and delimiters, ultra-short content, request on demand, udp protocol.

Each packet MUST be folowed by a Carriage Return (hex 13) and Line Feed (hex 10) {"\r\n"}



FXprotocol 2k20

<u>STREAM DESCRIPTION</u>	<u>STREAM w/o "</u>	<u>REQUIRED ARGUMENT(S)</u>	<u>OPTIONAL ARGUMENT(S)</u>	<u>SPORT</u>	<u>REQUEST</u>
CLOCK	'clk;'	1	1	UWW / WT	"clock"
BREAK	'brk;'	1	0	UWW / WT	"break"
PERIOD	'prd;'	1	0	WT	"period"
POINTS	'pt1;' / 'pt2;'	1	0	WT	
SCORE	'sc1;'	2	0	UWW / WT	"scores"
WARNINGS / GAM-JEOM	'wg1;'	2	0	UWW / WT	"warnings" / "gam-jeom"
CAUTIONS	'ct1;'	2	0	UWW	"cautions"
MATCH	'mch;'	14	0	UWW / WT	"informations"
ATHLETES	'at1;'	6	0	UWW / WT	"athletes"
AVANTAGE	'avt;'	1	0	UWW	"avantage"
INJURY	'ij1;' / 'ij2;'	1	1	UWW / WT	"ij1" / "ij2"
ACTIVITY	'ac1;' / 'ac2;'	1	1	UWW	"ac1" / "ac2"
WINNER	'wmh;'	2	0	UWW / WT	"winmatch"
IDENTIFICATION	'mat;'	3	0	UWW	"identification"
CHALLENGE / IVR	'ch1;'	1	1	UWW / WT	
REFEREES	'ref;'	2	x	UWW / WT	"referees"
PRELOAD	'pre;'	0	1	UWW / WT	
READY	'rdy;'	0	1	UWW / WT	
HELLO	'hel;'	0	0	UWW / WT	
BYBYE	'bye;'	0	0	UWW / WT	

CLOCK

UWW / WT

Stream broadcasted when clock change, operator start, correct or stop the clock, or when period is finished

MAIN STREAM	clk;	
REQUIRED ARGUMENT	1:23	<i>Scoreboard clock</i>
OPTIONAL ARGUMENT	;start	<i>Operator action : starting the clock</i>
	;stop	<i>Operator action : starting the clock</i>
	;corr	<i>Operator action : correcting the clock</i>
	;stopEnd	<i>Automatic action : end of period / match</i>

EXAMPLES w/o " *'clk;1:59;start' / 'clk;1:58' / 'clk;1:57;stop' / 'clk;0:00;stopEnd'*



BREAK

UWW / WT

Stream broadcasted during the breaking time (inter-periods)

MAIN STREAM

brk;

REQUIRED ARGUMENT

59 *Scoreboard break {ss}*0:59 *Scoreboard break {m:ss}*

EXAMPLES w/o "

'brk;0:59' / 'brk;58' / 'brk;0:00;stopEnd' / 'brk;0;stopEnd'



PERIOD

WT

Stream broadcasted when period (round) changes

MAIN STREAM

prd;

REQUIRED ARGUMENT

- 1 *Period number 1*
- 2 *Period number 2*
- 3 *Period number 3*
- 4 *Period number 4*

EXAMPLES w/o "

'prd;1' / 'prd;2' / 'prd;3' / 'prd;4'



POINTS

WT

Stream broadcasted when points are added**MAIN STREAM**

pt1; Main stream for athlete 1

pt2; Main stream for athlete 2

REQUIRED ARGUMENT1 *Punch point*2 *Body point*3 *Head point***EXAMPLES w/o "**

'pt1;1' / 'pt1;2' / 'pt1;3' / 'pt2;1' / 'pt2;2' / 'pt2;3'



SCORE

UWW / WT

Stream broadcasted when score changes

MAIN STREAM

sc1;

REQUIRED ARGUMENTS

1 *score of athlete 1*

;sc2; *delimiter for athlete 2*

2 *score of athlete 2*

EXAMPLES w/o "

'sc1;1sc2;2' / 'sc1;18;sc2;24'



WARNINGS / GAM-JEOM*UWW / WT*Stream broadcasted when warnings / gam-jeom changes**MAIN STREAM**

wg1;

REQUIRED ARGUMENTS1 *warning / gam-jeom of athlete 1*;wg2; *delimiter for athlete 2*2 *warning / gam-jeom of athlete 2***EXAMPLES w/o "**

'wg1;1;wg2;2' / 'wg1;4;wg2;3'



CAUTIONS

UWW

Stream broadcasted when cautions changes

MAIN STREAM

ct1;

REQUIRED ARGUMENTS

1 *Cautions of athlete 1*;ct2; *delimiter for athlete 2*2 *Cautions of athlete 2*

EXAMPLES w/o "

'ct1;1;ct2;2' / 'ct1;4;ct2;3'



MATCH

UWW / WT

Stream broadcasted when match is loaded

MAIN STREAM

mch;

REQUIRED ARGUMENTS

1234 *Match number*;1/8 final *Round / Phase*;Men -59Kg *Sport / Discipline*;1 *Mat / Court*;#000000 *Color Athlete 1*;#FFFFFF *Text Color Athlete 1*;#000000 *Color Athlete 2*;#FFFFFF *Text Color Athlete 2*;a14ddd5c *GUID*;Senior *Age category / Division*;2 *Number of periods*;120 *Period duration*;cntDown *Count up or count down clock*;3 *Hit level*

EXAMPLE w/o "

'mch;1234;1/8 final;Men -59Kg;1;#000000;#FFFFFF;#000000;#FFFFFF;a14ddd5c;Senior;2;120;cntDown;3'



ATHLETES*UWW / WT*Stream broadcasted when match is loaded or when names or country changes**MAIN STREAM**

at1;

REQUIRED ARGUMENTS

F.MODOUX

Short name athlete 1

;Frederic MODOUX

Long name athlete 1

;SUI

Team athlete 1

;at2;

Delimiter for athlete 2

F.MODOUX

Short name athlete 2

;Frederic MODOUX

Long name athlete 2

;SUI

*Team athlete 2***EXAMPLE w/o "***'at1;F.Modoux;Frederic MODOUX;SUI;at2;F.MODOUX;Frederic MODOUX;SUI'*

AVANTAGE

UWW

Stream broadcasted when score is equal and advantage changes

MAIN STREAM

avt;

REQUIRED ARGUMENT

1 *Athlete number having advantage (0 if none)*

EXAMPLES w/o "

'avt;1' / 'avt;2' / 'avt;0'



INJURY

UWW / WT

Stream broadcasted when injury time is running

MAIN STREAM	ij1;	Main stream for athlete 1
	ij2;	Main stream for athlete 2
	ij0;	Main stream for unidentified athlete
REQUIRED ARGUMENT	1:23	<i>Clock of the injury time</i>
OPTIONAL ARGUMENT	;show	<i>When showing the injury time</i>
	;hide	<i>When hiding the injury time</i>
	;reset	<i>When resetting the injury time</i>

EXAMPLES w/o "*'ij1;1:23;show' / 'ij1;1:22' / 'ij1;1:21;hide' / 'ij2;0:45;show' / 'ij2;0:44' / 'ij2;0:44;hide' / 'ij0;1:42'*

ACTIVITY

UWW

Stream broadcasted when activity time is running

MAIN STREAM	ac1;	
	ac2;	
REQUIRED ARGUMENT	1:23	<i>Clock of the activity time</i>
OPTIONAL ARGUMENT	;show	<i>When showing the activity time</i>
	;hide	<i>When hiding the activity time</i>
	;reset	<i>When resetting the activity time</i>

EXAMPLES w/o "**'ac1;28;show' / 'ac1;27' / 'ac1;26;hide' / 'ac2;9;show' / 'ac2;8' / 'ac2;7;hide'**

WINNER

UWW / WT

Stream broadcasted when winner is selected and can be update when classification points are selected**MAIN STREAM**

wmh;

REQUIRED ARGUMENTS

F.MODOUX

Winner name

;3-0VF

*Classification points***EXAMPLES w/o "**

'wmh;F.MODOUX' / 'wmh;F.MODOUX;3-0VF'



IDENTIFICATION

UWW

Stream broadcasted when requested only

MAIN STREAM	mat;	
REQUIRED ARGUMENTS	1	<i>Mat or court number</i>
	;xxx.xxx.xxx.xxx	<i>IP of the scoreboard PC</i>
	;V1.2	Software version

EXAMPLE w/o " *'mat;1;192.168.0.1;V1.2'*



CHALLENGE / IVR

UWW / WT

Stream broadcasted when challenge / IVR is requested or updated

MAIN STREAM	ch1;	Main stream for athlete 1
	ch2;	Main stream for athlete 2
REQUIRED ARGUMENT	1	Boolean if challenge is accepted or denied. -1 for canceled challenge
OPTIONAL ARGUMENT	;1	Boolean if the accepted challenge is won or lost

EXAMPLES w/o "

'ch1;' / 'ch1;0' / 'ch1;1' / 'ch1;1;0' / 'ch1;1;1' / 'ch2;' / 'ch2;0' / 'ch2;1' / 'ch2;1;0' / 'ch2;1;1' / 'ch1;-1' / 'ch2;-1'



REFEREES

UWW / WT

Stream broadcasted before match start or when referees name/team changes

MAIN STREAM	ref;	
REQUIRED ARGUMENT	Referee NAME	<i>Name of the referee</i>
	;SUI	<i>Team of the referee</i>
OPTIONAL ARGUMENTS	;ju1	<i>Delimiter for 1st judge</i>
	;Judge NAME	<i>1st judge name</i>
	;SUI	<i>1st judge team</i>
	;ju2	<i>Delimiter for 2nd judge</i>
	;Judge NAME	<i>2nd judge name</i>
	;SUI	<i>2nd judge team</i>
	;ju3	<i>Delimiter for 3rd judge</i>
	;Judge NAME	<i>3rd judge name</i>
	;SUI	<i>3rd judge team</i>

EXAMPLE w/o " 'ref;Frederic MODOUX;SUI;ju1;Frederic MODOUX;SUI;ju2;Frederic MODOUX;SUI;ju3;Frederic MODOUX;SUI'

PRELOAD

UWW / WT

Stream broadcasted when match is pre loaded

MAIN STREAM

pre;

OPTIONAL ARGUMENT

FightLoaded

Any optional comment

EXAMPLE w/o "

'pre;' / 'pre;FightLoaded'



READY

UWW / WT

Stream broadcasted when match is ready to start

MAIN STREAM

rdy;

OPTIONAL ARGUMENT

FightReady

Any optional comment

EXAMPLE w/o "

'rdy;' / 'rdy;FightReady'



HELLO

UWW / WT

Stream broadcasted just before opening the connection/software

MAIN STREAM

hel;

EXAMPLE w/o "

'hel;'



BYBYE

UWW / WT

Stream broadcasted just before closing the connection/software

MAIN STREAM

bye;

EXAMPLE w/o "

'bye;'



Packets must be broadcasted on the whole subnet ! Ex: class A 10.**255.255.255**, class B 172.17.**255.255**, class C 192.168.1.**255**

Data can be broadcasted on different ports for each mat / court but can share the same LAN

Each packet must be separated by a Carriage Return `\r` and Line Feed `\n` so if packet paste each other on network, they still can be read

When changes happens, data are broadcasted when those changes happens.

When request is done from a client, the answer must go only to this client endpoint and not broadcasted on the whole subnet

Requests can be done on the same port used to broadcasted the data, or on another dedicated request port

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Version 2k20.1 Fmodoux.biz september 2019