



Technical Video Services Manual

Version 2019-01 / published on 21st May 2019



INTRODUCTION

This manual is dedicated to the Host Organising Committee (HOC) to deliver a good TVS services to the National Federations during an ICF Competition or other main international competitions.

The ICF will support the HOC prior the competition:

- Planning / set up / training
- Provide guidelines (hardware, logistics)
- Troubleshooting
- Hardware for distribution in HD
- Technical support and knowledge transfer
- Provider links i.e. Siwidata, HTR, videowall company etc.

There will be an ICF TVS coordinator available for your questions and help at each ICF competition and for your preparation if needed:

	Person	E-mail address	Skype
Main contact	Hans-Peter WEISS	hape.weiss@t-online.de	hans-peter.weiss
Alternate contact	Mark Abbott	markabbott787@gmail.com	markabbott787@gmail.com
ICF HQ	Cyril Nivel	cyril.nivel@canoeicf.com	cnivel

CONTENTS



A. Main ICF providers: services & contacts.....	5
A.1- Services	5
A.2- Main contacts – ICF providers	5
B. System description	6
B.1- Fundamental service	6
B.2- TVS overview	6
B.3- Layout.....	7
C. Operational requirements	8
C.1- OVR and TVS	8
a. <i>General layout</i>	8
b. <i>Video Judges Work Space requirements</i>	8
c. <i>TVS video production requirements</i>	8
C.2- Field of play and TVS	9
a. <i>TVS camera</i>	9
b. <i>Gateline judges cameras</i>	9
C.3- TVS distribution room	10
a. <i>General view</i>	10
b. <i>Requirements</i>	10
c. <i>Best layout</i>	10
d. <i>Typical "Fuse Box" for TVS room distribution</i>	11
D. Power consumption requirements	12
D.1- Basic modules	12
D.2- Optional modules	13
E. TVS video production process	14
E.1- ICF Providers & operation	14
E.2- Production plan	14
F. TVS and Sport Presentation	15
F.1- Service provided by Siwidata.....	15
F.2- Layout.....	15
G. TVS and human resources.....	16
G.1- Overview.....	16
G.2- Requirements for the Hoc.....	16
G.3- HOC TVS coordinator	16
G.4- TVS switchers	16
H. Hardware to be provided by the HOC	17

I. Information for the HOC TV producer & HOC TVS PRODUCER	18
I.1- ICF standard from 2019	18
I.2- Alternate concept for HOC TV and / OR TVS producer	18
I.3- TVS video feed usage	19

A. MAIN ICF PROVIDERS: SERVICES & CONTACTS



A.1- SERVICES

For ICF competitions (level 1 and 2) the ICF providers will deliver the following services:

	SIWIDATA	HIT THE ROOF
	 [SPORT: INFORMATION: TECHNOLOGY]	
TVS production	X	X
Timing / scoring	X	
TV production		X

For other competition the TVS production, Timing / scoring and TV production can be completely separated depending of the experience and skills of each provider.

A.2- MAIN CONTACTS – ICF PROVIDERS

 [SPORT: INFORMATION: TECHNOLOGY]	Andre CHRISTANELL	andre.christanell@siwidata.com
	Cedric ROGER	cedric@htroffice.ch

B. SYSTEM DESCRIPTION

B.1- FUNDAMENTAL SERVICE

TVS delivers the central video signal for all ICF competitions (Level 1 and level 2).

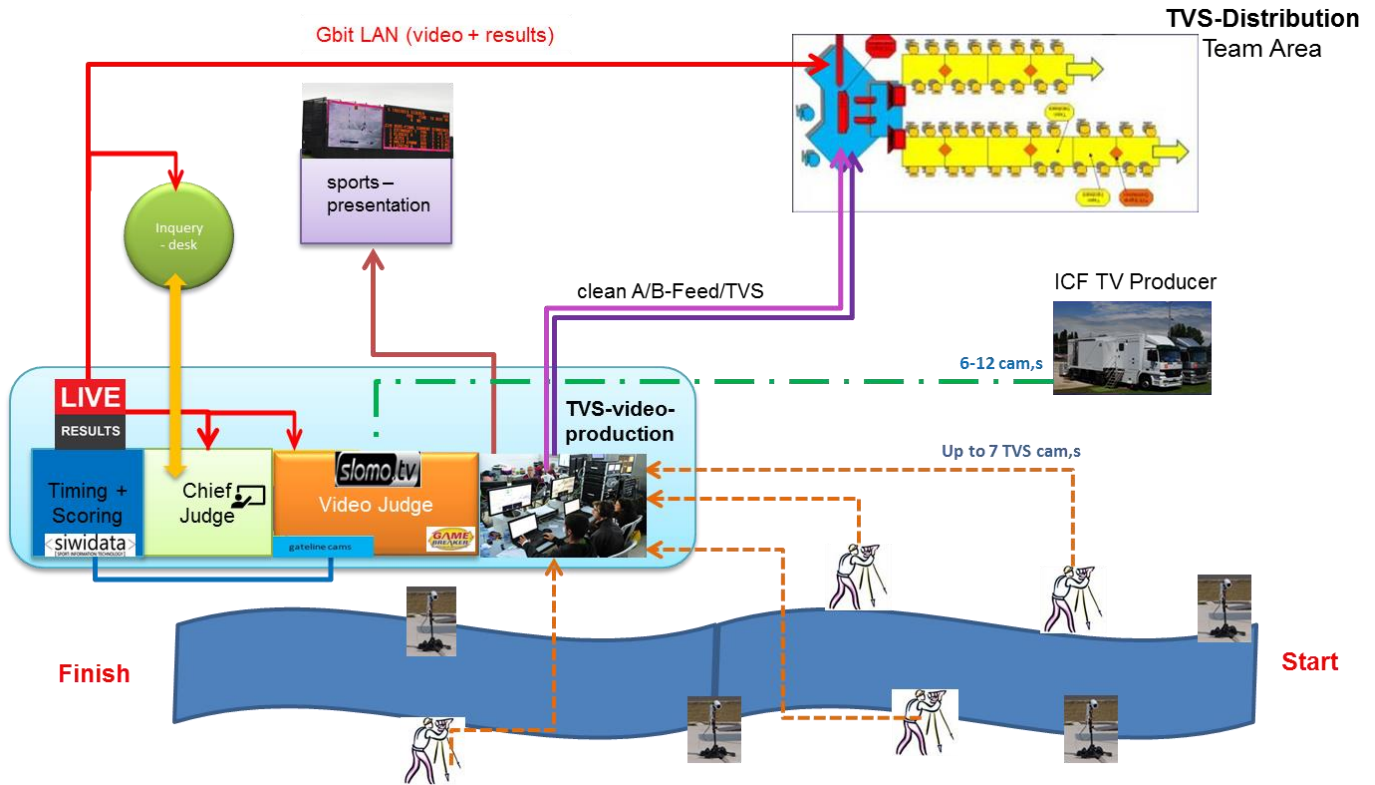
TVS has a number of clients and must be capable of serving the following users:

- National Federations (Coaches/Sport Scientists/Team Leaders)
- ICF Technical Officials (Chief Judge/ Video Judges)
- HOC Services: Video wall, public screens if Live TV not available
- Video on Demand (VOD) streamed on the internet where appropriate

B.2- TVS OVERVIEW



B.3- LAYOUT

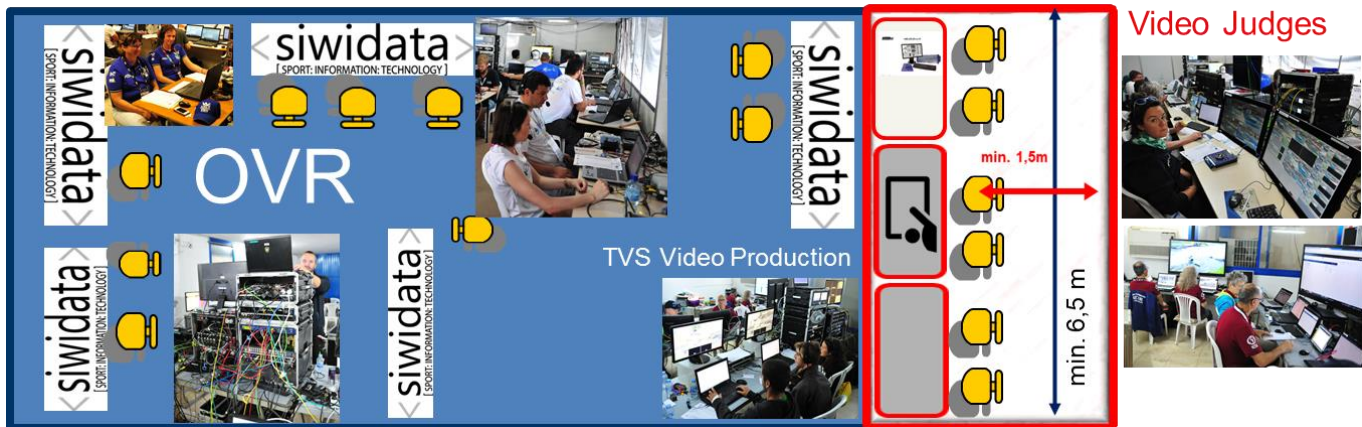


#ICFslalom

C. OPERATIONAL REQUIREMENTS

C.1- OVR AND TVS

a. General layout



the Video Judges Work Space and TVS Video Production must be inside the OVR.

b. Video Judges Work Space requirements

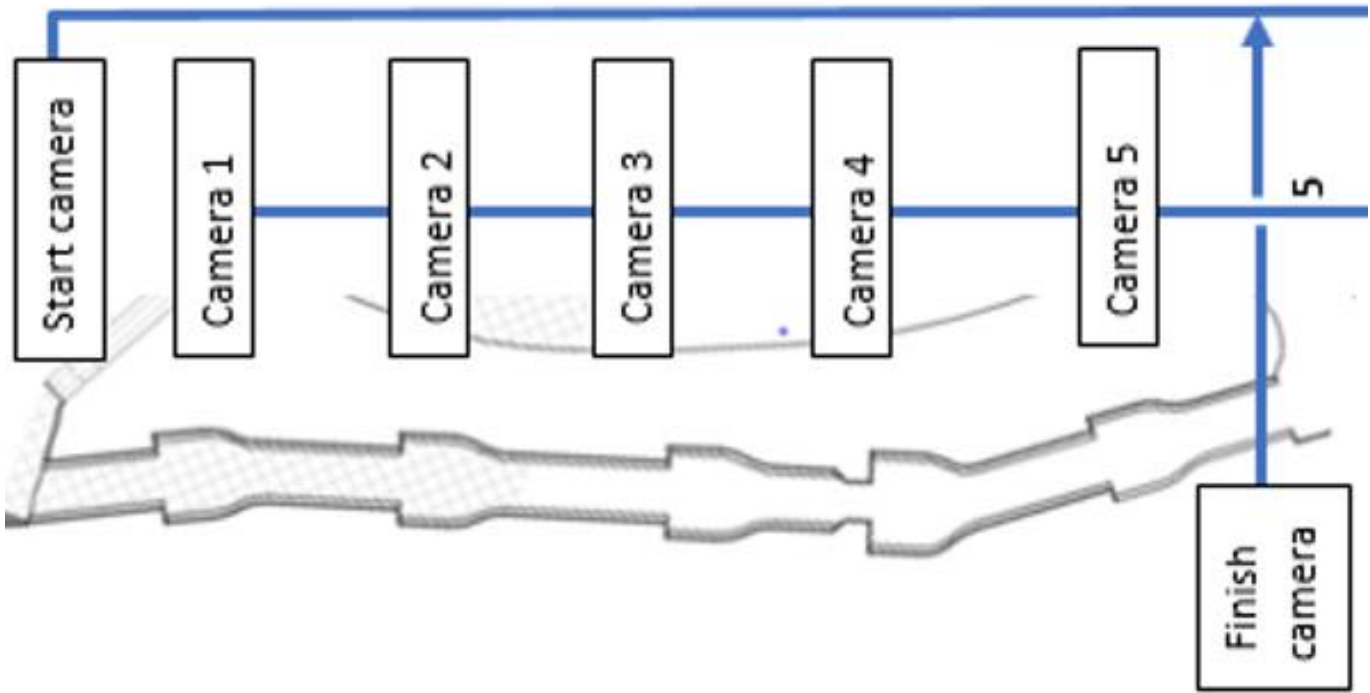
- Floor space: minimum 9.0m² (chairs/ gangway /store...)
- Table space: minimum 7.0m²
- Overall: 15-17m²

c. TVS video production requirements

- Floor space: minimum 3.0 m²
- Table space: minimum 2.0 m² (2m per 1m)
- Overall: minimum 6.0 m²

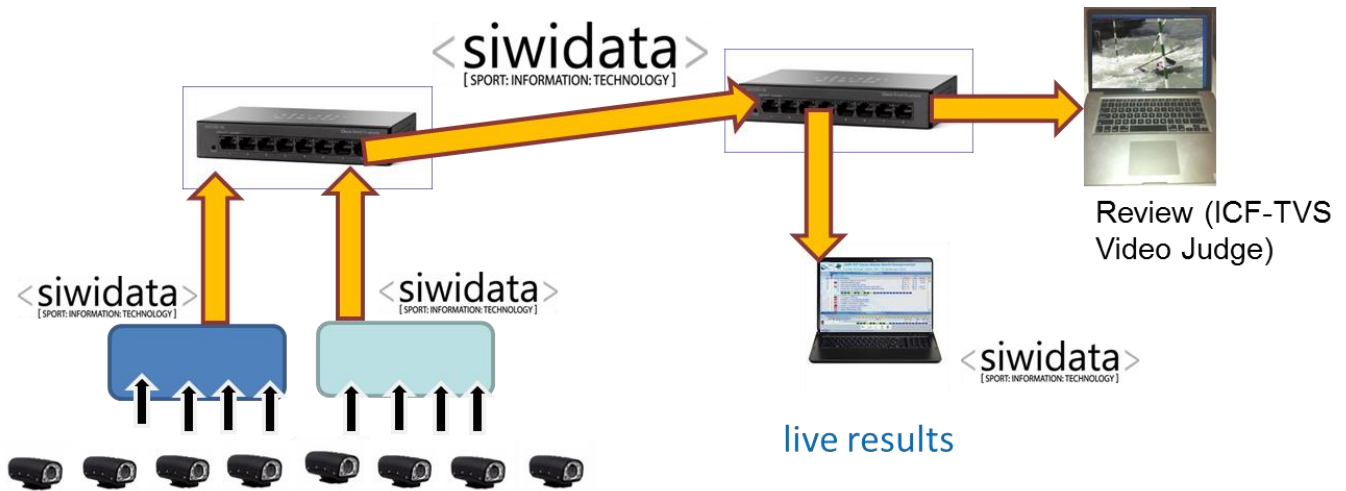
C.2- FIELD OF PLAY AND TVS

a. TVS camera



b. Gateline judges cameras

The setup includes up to 8 gateline cameras provided by SIWIDATA and link over LAN/WLAN.



C.3- TVS DISTRIBUTION ROOM



a. General view

This room is dedicated to the National Federations to capture the TVS feed.

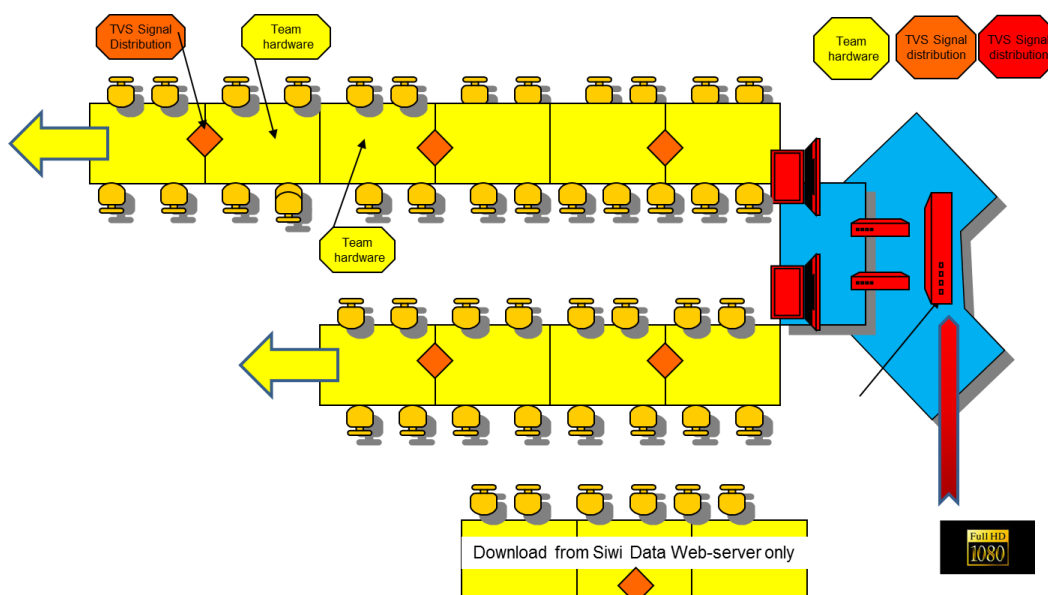
b. Requirements

- Up to 28 work spaces for each team to receive the TVS signal in HD
- Size:

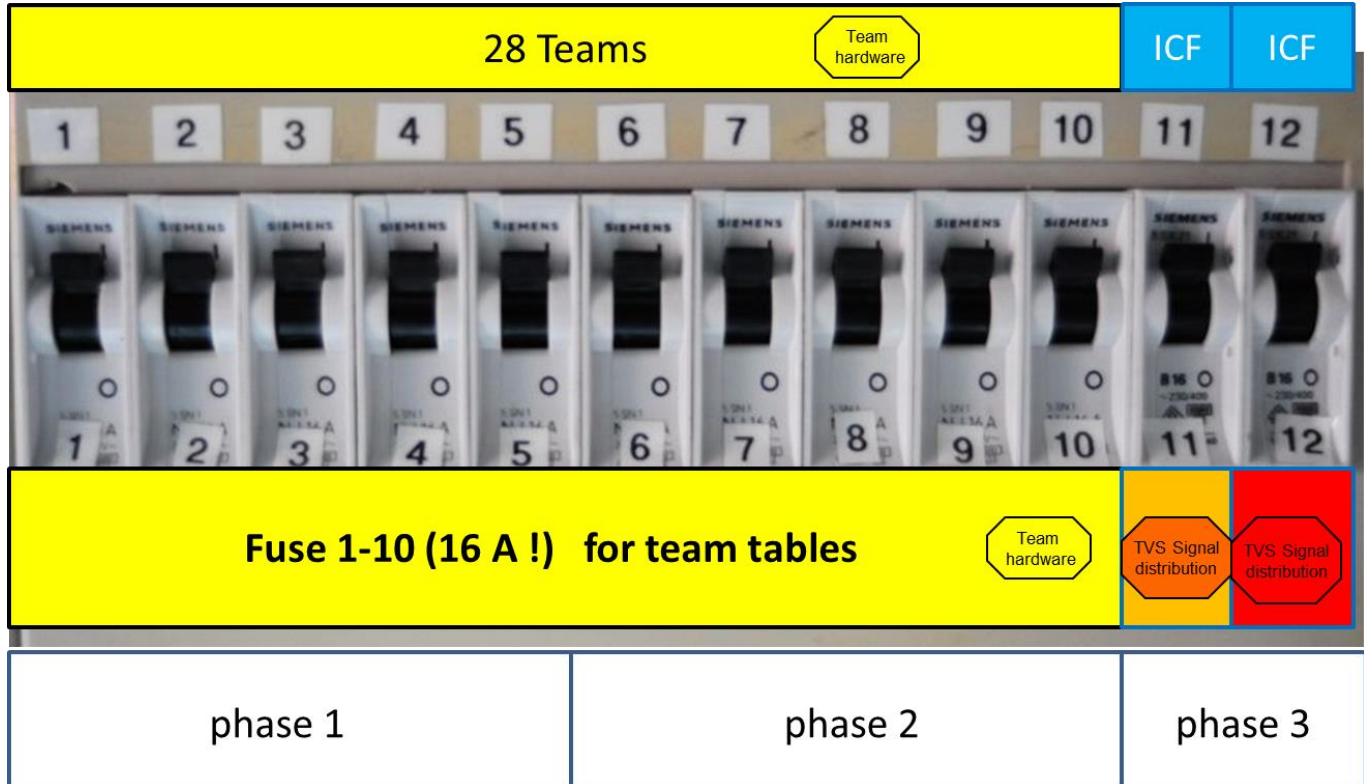
	World Cup Junior & U23 World Championships	World Championships
minimum	110 m ²	150 m ²

- Table space:
 - 1,5-2,0 m² per National Federation for TVS capture
 - 1 work spaces for "ICF TVS distribution" 6 m²
- Location:
 - Close as possible to TVS production or Video Judge area
 - Less than 80m is fine

c. Best layout



d. Typical "Fuse Box" for TVS room distribution



D. POWER CONSUMPTION REQUIREMENTS

D.1- BASIC MODULES

The requirements of the basic modules are not able to be changed.

AREA	FUNCTION	CONTENTS	POWER REQUIREMENTS
TVS Distribution room	ICF TVS distribution	<ul style="list-style-type: none"> Up to 20 Distributors serving 32 nations control Monitors (2) TV-Screen for Live results Laptop DVD/ HD recorder WLAN Antenna LAN network 	1'200 W
	National Federation Capture	<ul style="list-style-type: none"> Up to 28 workstations for nations each with power for e.g. laptops, monitors, printers, external hard drives with their own power supply, UPS 	25'000 W
OVR	TVS video Production	<ul style="list-style-type: none"> Complete switching internal from video-coaches area 	3'500W <i>UPS provided by SIWIDATA</i>
	Video Judges Work Space	<ul style="list-style-type: none"> 4-5 workstations for video judging with e.g. TV-monitors, PC-monitors, laptops, LAN - hardware, external hard drives, HD distribution amplifier, Server, switches 	2'500W <i>2 phases needed</i>
Field of Play	TVS cameras	<ul style="list-style-type: none"> up to 6-7 cameras on course with power feed 	1'000W
	Gateline cameras	<ul style="list-style-type: none"> see SIWIDATA requirements 	1'000W



D.2- OPTIONAL MODULES

The optional modules may vary to meet the needs of the event.

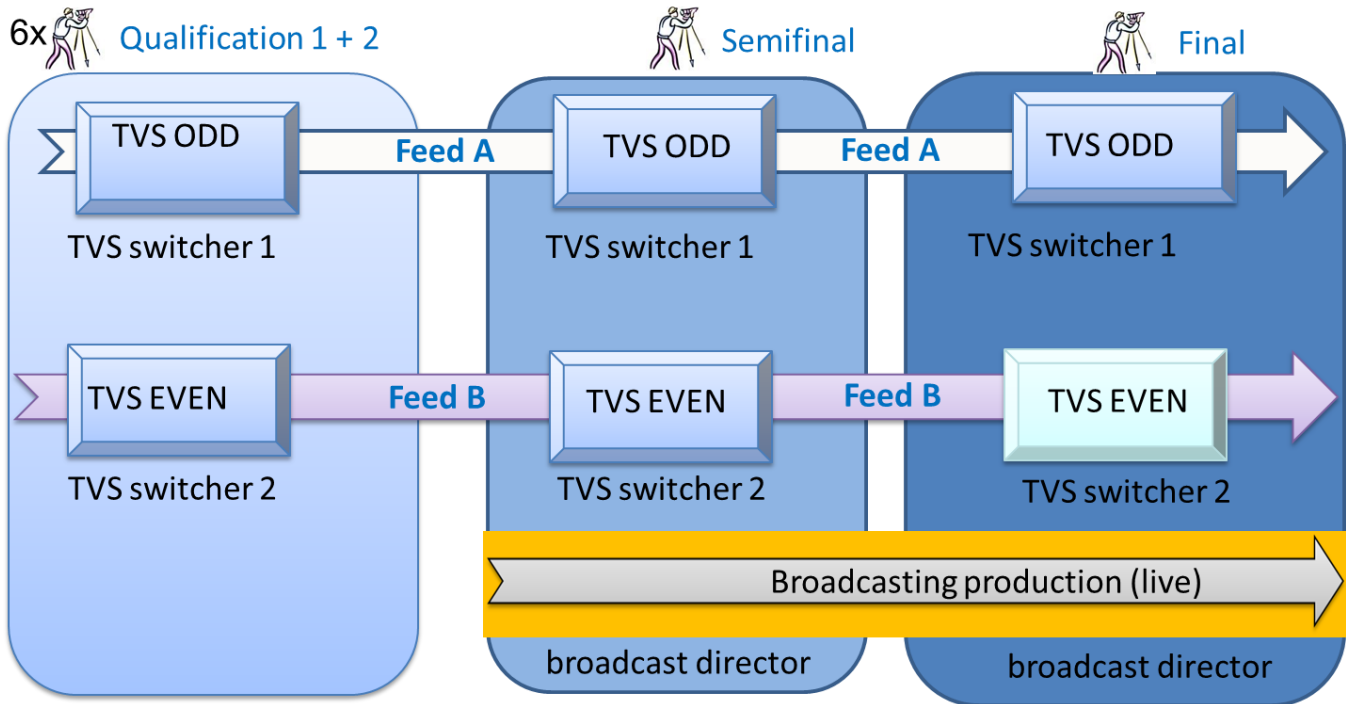
- OB van for external TVS video production
 - Not the case for ICF competitions level 1 and 2
 - Power requirements will be defined by the provider.
- Video capture
 - If Siwidata manage video-capturing, streaming Internet TV
 - Up to 2 workstations
 - Power requirements: 1000W
- Video on Demand (VOD)

E. TVS VIDEO PRODUCTION PROCESS

E.1- ICF PROVIDERS & OPERATION

HIT THE ROOF	SWIDATA
Setup operated cameras for TVS Operate cameras for TVS	Switching the final TVS A/B
	

E.2- PRODUCTION PLAN

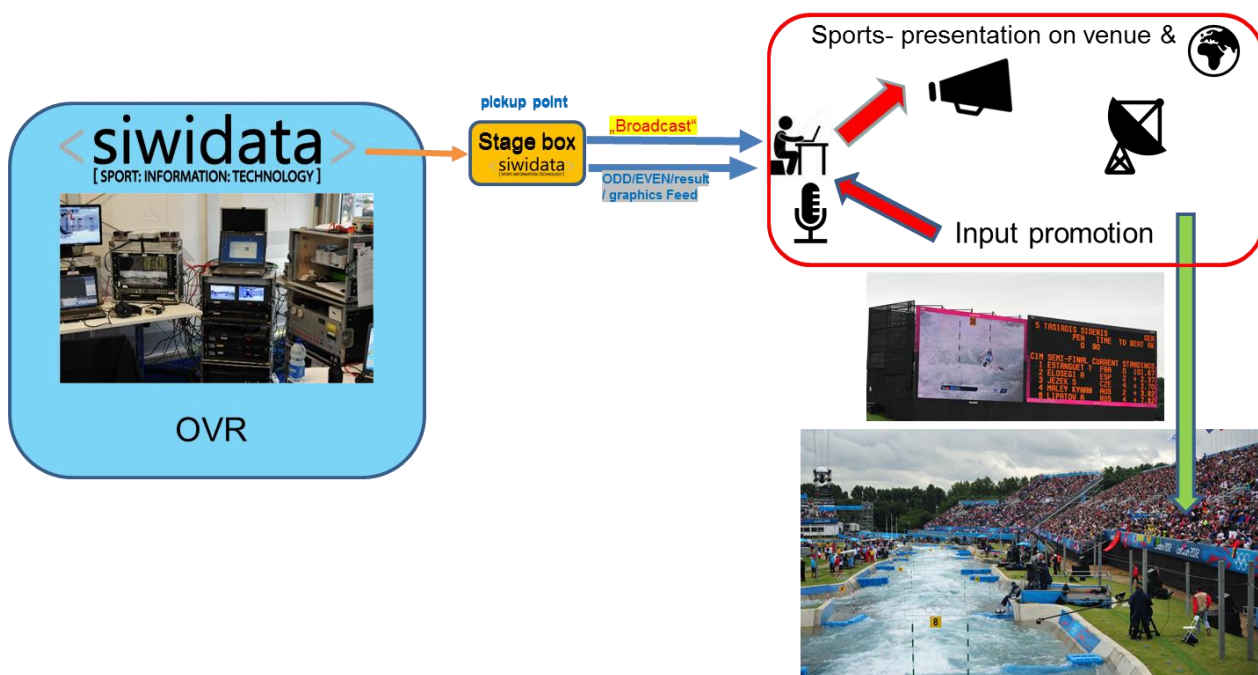


F. TVS AND SPORT PRESENTATION

F.1- SERVICE PROVIDED BY SIWIDATA

- Siwidata provides a feed via fibre and a stage box up to the pickup point for the videowall company.
- This feed includes one mixed ODD / EVEN / Results Graphics feed.
- Feed description: HD-SDI 108i50, RG59/RG60
- HDMI, or other formats: the conversion must be done by the videowall company.
- There is a lot of parameters e.g. cabling, staffing, hardware, interface. In case of questions (e.g. positioning the stage box, signal information) please contact the Canoeing SIWIDATA coordinator.

F.2- LAYOUT



G. TVS AND HUMAN RESOURCES

G.1- OVERVIEW

The TVS video production involves several stakeholders:

- Technical Volunteers from the HOC and the ICF
- Professional companies
- National Federations as our main customer

G.2- REQUIREMENTS FOR THE HOC

The HOC must provide:

Function	Number of persons
HOC TVS coordinator	1
TVS switchers	3

The name, the contact details and the experience of each nominated persons must be provided to the ICF TVS coordinator at least 2 months prior the competition.

G.3- HOC TVS COORDINATOR

Main tasks are:

- Co-ordinate the TVS-HOC staff
- Provide hardware in time
- Assist TVS coordinator
- Risk management
- Arrange that all HOC contractor companies participate in time to the technical meetings

G.4- TVS SWITCHERS

Background needed:

- Canoe slalom paddler

Or

- Very familiar with Canoe slalom

H. HARDWARE TO BE PROVIDED BY THE HOC



All the equipment listed must be provided at least one day before the competition rehearsal in the dedicated area.

AREA	EQUIPMENT	DETAILS	QUANTITY
TVS ROOM DISTRIBUTION	TV monitor	<ul style="list-style-type: none">• ≥ 24 Inch• HDMI• Remote with new battery	2
	HDMI cable	2m to 3m	2
	Table	<ul style="list-style-type: none">• ≥ 2,0 m x ≥ 0,8 m	28 to 36
	Chair		≥ 50
	Power socket	<ul style="list-style-type: none">• One for each team	28
	Rubbish bin		2
OVR Video Judges Work Space	PC/TV monitor	<ul style="list-style-type: none">• 22-24 Inch• HDMI• Resolution ≥ 1920x1200• remote with new battery	2
	PC/TV monitor	<ul style="list-style-type: none">• 50 Inch• HDMI• Resolution ≥ 1920 x1200	1
	HDMI cable	<ul style="list-style-type: none">• 3m (PC to monitor)	3
	Table	<ul style="list-style-type: none">• ≥ 2,0 m x ≥ 1,0 m	3
	Chair		8
	Power socket	<ul style="list-style-type: none">• Each power socket on different phase	2

I. INFORMATION FOR THE HOC TV PRODUCER & HOC TVS PRODUCER

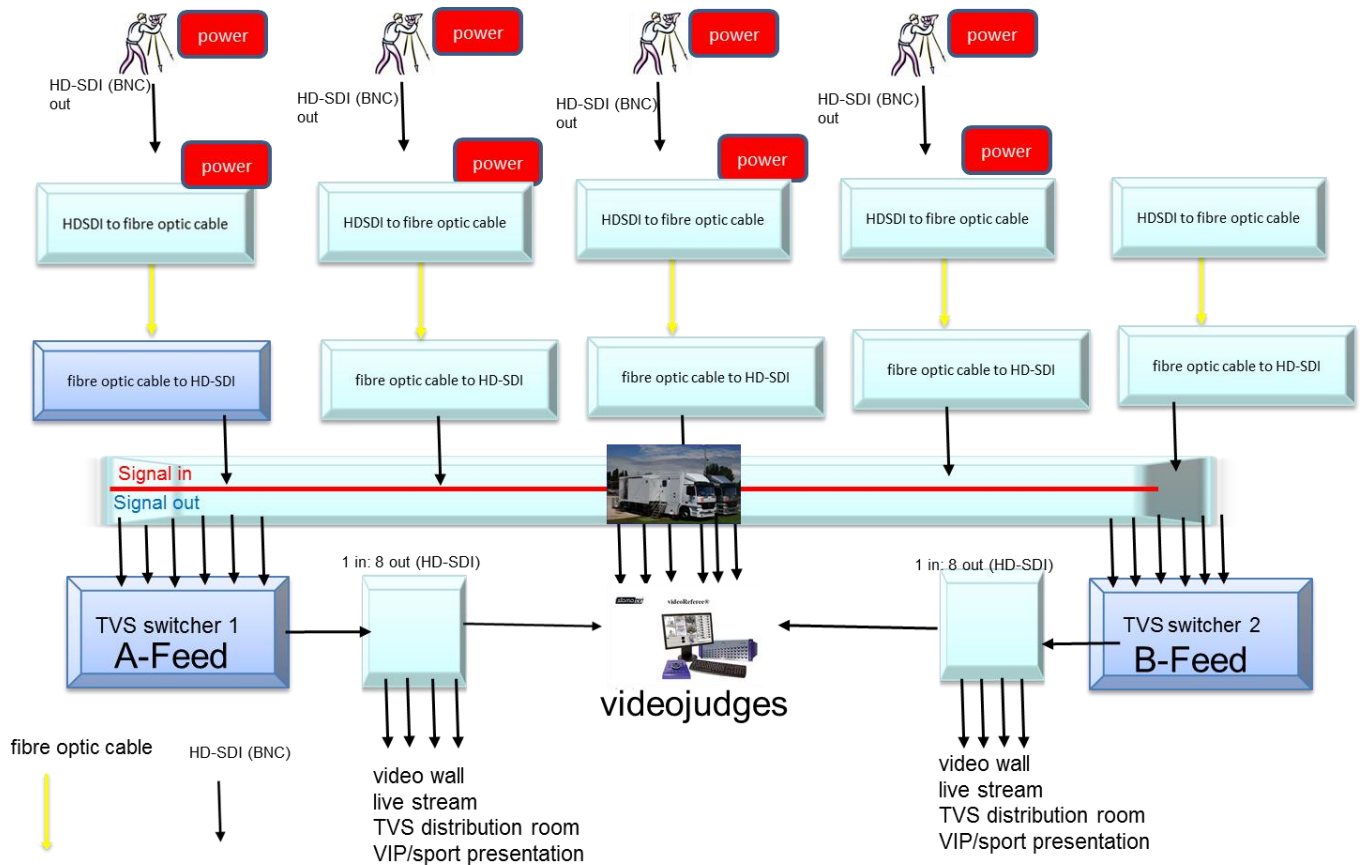
This section is dedicated to give more information the provider working for international competition without ICF provider.

ICF World Championships (senior) and ICF World Cup are not concerned by this section.

I.1- ICF STANDARD FROM 2019

- HD 1080i
- Local Video download

I.2- ALTERNATE CONCEPT FOR HOC TV AND / OR TVS PRODUCER



I.3- TVS VIDEO FEED USAGE



operate up to 12 broadcast + TVS feeds