



// INNOVATION PLAYBOOK

## 8K Over 5G Trial Wins Big at the 2019 French Open

Live sports continue to be a driving force to evolve TV technologies.

### WHAT FANS CRAVE



LIVE & VOD  
SERVICES



HIGHEST  
RESOLUTIONS



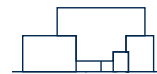
LIVE SPORTS  
STREAMING



PREMIUM  
CHANNELS



VIDEO  
EVERYWHERE



MULTI-SCREEN  
VIEWING

## THE GAME PLAN

The next iteration of television is 8K TV. Live sports events are expected to be a catalyst for the adoption of 8K technology, and trials around the world are well underway.

France Télévisions was a primary broadcaster for the 2019 French Open tennis tournament. It chose to leverage this prestigious event to embark on an impressive technology demonstration. The goal was to stream 100 hours of the tournament in 8K resolution to both televisions and mobile devices using a 5G network.

There were many questions to be answered in terms of media processing performance, transport networks and 8K video delivery to TVs and mobile devices.

## THE PLAY-BY-PLAY

The momentous demonstration involved a 5G network in Paris and more than 18 vendors providing 8K TV cameras, transmission equipment, servers, media processing software, 8K television sets and 5G mobile phones. Harmonic's VOS® Cloud-Native Software was the driving force behind the scenes.

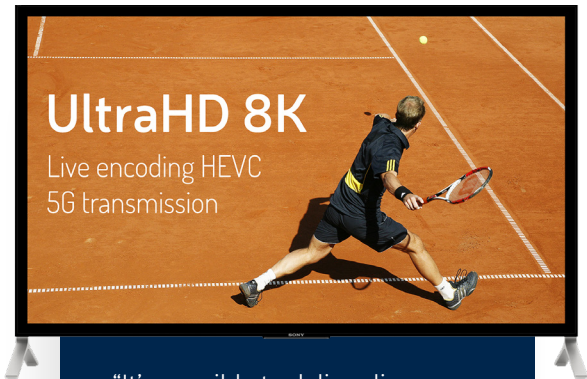
The entire technical system for the trial was set up in just two months. Once the scalable processing servers were installed, it only took two days to set up the VOS Cloud-Native Software.

The VOS software can support multiple services, including live broadcasting, catch-up TV, and VOD across television sets and mobile devices.

Harmonic's VOS Cloud-Native Software unifies the media processing chain and provides all the essential functions. Broadcasters need only to define their sources, upload the assets and set regional or global distribution policies to start engaging with audiences.

This project truly set the stage for 8K and 5G deployments. NHK has already deployed 8K commercially on the BS digital satellite and will cover the Tokyo 2020 Games. It is expected that by 2024, France Télévisions, which has the rights for the 2024 Paris Games, will also be ready to test 8K.

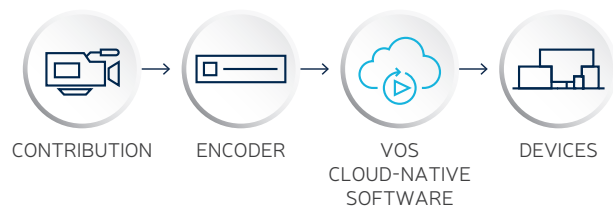
8K TV provides the ultimate technology for realistic video. It powers the production of wider angles. Imagine being able to cover an entire soccer field with only one camera. It also enables high-quality immersive experiences like VR and personalized streaming on legacy devices.



"It's possible to deliver live, catch-up TV and VOD content in pristine 8K to TVs and mobile devices using 5G networks. This is just the beginning."

**Thierry Fautier**

VP, Business Development & Innovation at Harmonic



## THE WIN

The French Open tennis tournament showed us that 8K TV is on its way and is in line to create opportunity for growth in the industry. Teamwork and collaboration are and will continue to be key success factors. The streaming capabilities demonstrated at the French Open are proof that working together makes the difference for the future of streaming, today.

## THE POWER OF VOS SOFTWARE

100

hours streamed  
live in 8K



Seamless  
integration



Fast deployment



Live events  
streamed at scale



Tomorrow's tech,  
today