

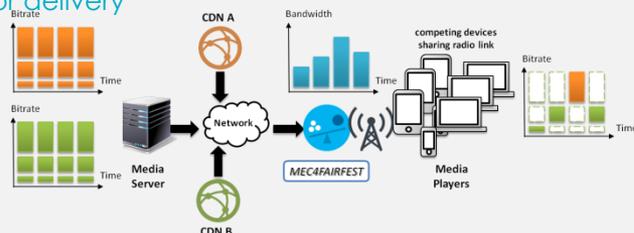
Motivation

- Dynamic adaptation of media players in a distributed and uncoordinated way
- Each client strives to optimize its individual QoE

Media Service needs awareness of end-user device context and network conditions to optimize video experience
 ETSI standard on **Multi-access Edge Computing** allows deploying application services at the edge of the mobile network

MEC4FAIRFEST

- Active component of the video delivery chain at the mobile edge
- Responsible for dynamically controlling HAS video representations available for delivery



Innovation

- **Standard** compliance
- **Transparent**, no impact on service, CDN infrastructure nor media player
- Compatible with **encrypted** media delivery
- **Efficient**, no overheads
- Highly **scalable**

Market

- Video streaming technology providers for media services
- Telecom operators
- CDN operators
- Wireless networks vendors
- Dense event performances

WITHOUT PROXY

Higher initial buffering delay
 More frequent temporal interruptions or pauses
 More frequent video resolution changes
 Autonomous, Distributed and Unfair media experience

WITH PROXY

Lower initial buffering delay
 Less frequent temporal interruptions or pauses
 More stable video resolution
 Scalable, Coordinated and Fair media experience

Vicomtech

Vicomtech is an applied research centre specialized in Computer Graphics, Visual Computing and Multimedia technologies, founded in 2001 and based at San Sebastián Technology Park

Departments:

- Digital Media**
- Data Intelligence for Energy and Industrial Processes
- Industry and Advanced Manufacturing
- Intelligent transport systems and engineering
- eHealth and Biomedical Applications



Business Benefits

- **simplify** streaming media delivery
- **boost** prototyping
- overcome multiple stream **synchronization** to provide richer experiences
- deliver **low latency** streams

Use Cases

- Second/Multi-screen apps
- Live multimedia sharing
- Accurate timestamp based apps
- Synchronization of multiple live stream
- Low latency
- Video calls
- Remote Surveillance
- Factory supervisory control and data acquisition (SCADA) display
- Virtual desktop infrastructure (VDI)
- Cloud Gaming for ultra-thin clients
- Efficient delivery
- Advanced advertising insertion
- Train / Bus entertainment systems

Features

- streaming: RTP, RTSP, RTMP, HTTP, HLS, MPEG-DASH, WebRTC
- H.264 MP, HEVC/H265, AAC-LC/HC
- 4K & UHD & HDR
- iMX HW support
- GPU coding

