IBC Accelerators
5G & Remote Production in Live Sports

Supporting collaborative innovation across the Media Entertainment Ecosystem

October 2021

W: show.ibc.org/accelerators
E: accelerators@ibc.org
Selected Stadiums – Al Bayt
Production Workflow

- AI cam in stadium or/and remote truck
- PGM/Main Feed
- AI cam in stadium
- Drone Feed
- UGC From Stadium
- Live Broadcast Feed
- Fan Engagement App
Proposed set up for IBC

Stadium or/and Truck
- Mobile Contribution Hardware Device
- Encoder (5G Enabled)

Fan Zone
- Mobile Contribution Hardware Device
- Encoder (5G Enabled)

Remote Studio Truck
- Semi mobile Contribution truck (5G Enabled)

Centralized Location in the Field

Express Route

Nimbra Edge Orchestrator

SRT/RIST

PGM

Fan UGC feeds

Broadcast feeds

Other camera feeds

Fan UGC and Other side feeds

To Rightsholders

PGM

Express Route
All streams should be encoded MPEG-4/HEVC.
Nimbra Edge can receive SRT, RIST, RTMP or Zixi.
Nativewaves will need synchronized feeds from all contributors.
Different synch standards will be tested like SMPTE 12m.
If RIST/SRT/Zixi is not available a Nimbra Edge Connect docker can be installed that will enhance synch.
GV AMPP will also be tested.
All cloud application are installed in “own preferred cloud”
Drone Feed Workflow

Drone Footage Scene 1

Drone Footage Scene 2

Drone Footage Scene 3

Fan Engagement App
Drone Feed HLD

Live Broadcast Feed

Fan Engagement App
Fan Zone Feed HLD

Live Broadcast Feed

Fan Engagement App
MVP AI Camera Feed Workflow

AI Cam feed

AI selected feed – 60%

AI selected feed – 50%

AI selected feed – 90%
Broadcasters & Vendors Involved