CELEBRATING 100 Years of Innovation

NABSHOW®

Exhibits: April 16-19, 2023 | **Education:** April 15-19 | Las Vegas, NV

Cloud-native playout workflow

using IMF

What is the Interoperable Master Format?

Component-based file format for high-quality audio-visual masters

SMPTE standard since 2013

Widespread use by studios and their customers for delivery and archive

HPA IMF User Group

Worldwide community of IMF end-users and implementers

110+ members large and small

Regular meetings

Best practices

www.imfug.com/join

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SMPTE

IMF
#ispeakimf

YES

Can IMF be used with broadcast playout workflows?

CLOUD-NATIVE

... but there is more

Cloud-native multi-vendor workflow

Business process management

Quality Control   **Transcoding**   **Playout**

Cloud infrastructure

The Content

IMF UHD master provided by the BBC per spec

BBC is actively specifying the use of IMF for UHD delivery

- Fixes supplied as replacement CPLs will reduce time to screen for content
- Single UHD master in HLG HDR, transcoded and mapped down to HD for linear broadcast
- AS-11 meant for linear broadcast delivery, not for archive

The Panel

Pierre-Anthony Lemieux	Chair, **HPA IMF UG**
Carlos M. Carmona	Business Development Manager, Broadcast & Media Division, **Rohde & Schwarz**
Jonathan Solomon	Principal Partner Solution Architect, Media Supply Chain, Media & Entertainment, **AWS**
Julián Fernández-Campón	Chief Technology Officer, **Tedial**
Fereidoon Khosravi	SVP, Business Development, **Venera Technologies**

Quality Control

Verify the package integrity and structure

Verify CPL values

Validate sidecar check

CapMate
Captions Verification &
Correction
Native Cloud SaaS

Quasar
File based QC on Cloud
Native Cloud SaaS

Pulsar
File based Automated QC
On-premise

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SMPTE

IMF
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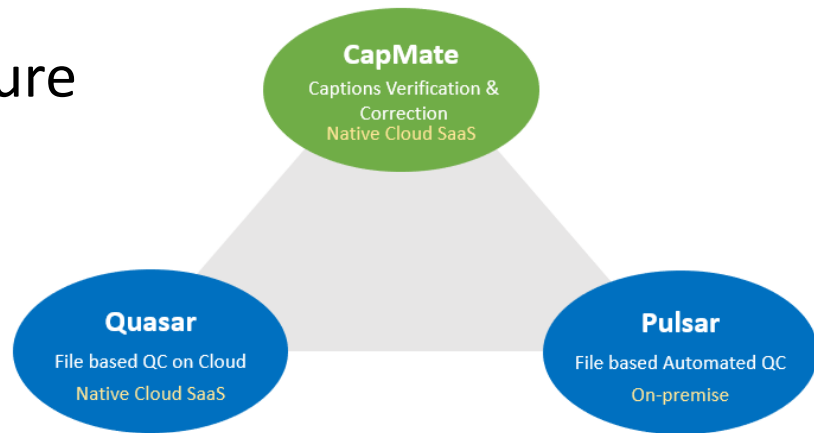
Business Process Management

smartWork. No-Code media integration Platform. Cloud native.

Quality control AQC

Transcoding

Send to playout

Transcoding

Source video files

Amazon Simple
Storage Service

File system

Object Storage or
source from HTTP/S

AWS Elemental
MediaConvert

Amazon Simple
Storage Service

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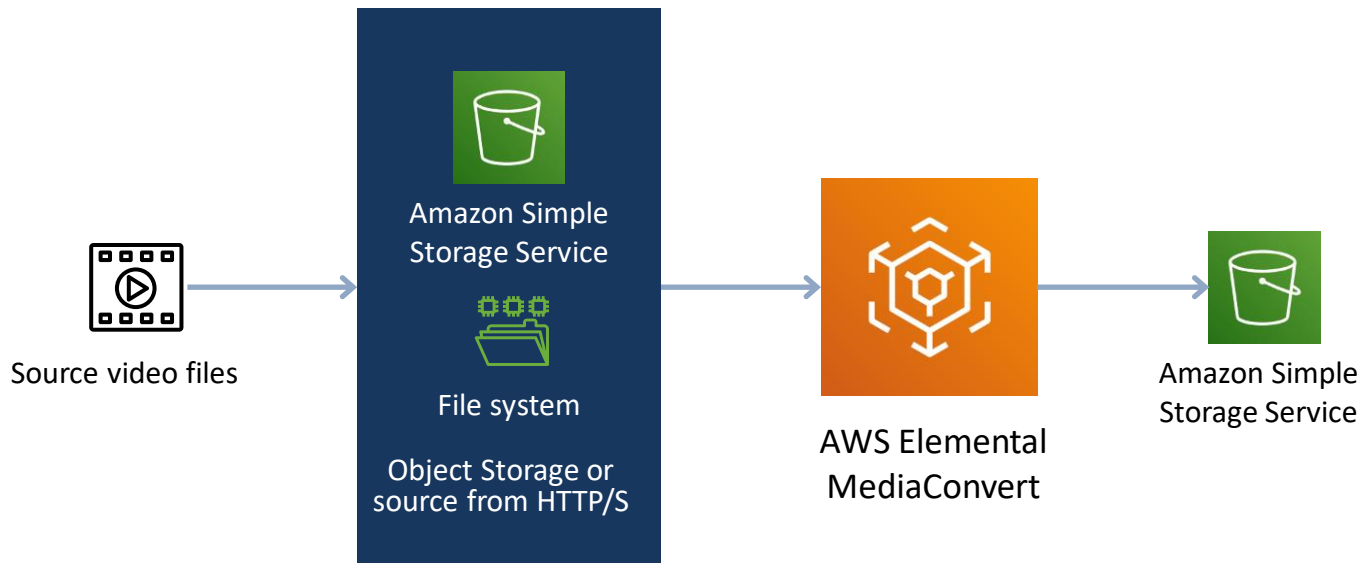
Playout

Gallium
The underlying **technology platform** to automate linear channel playout.

StreamMaster
A software-defined **video engine for 24/7** production of linear **TV channels**.

Gallium & StreamMaster can integrate with existing broadcast systems
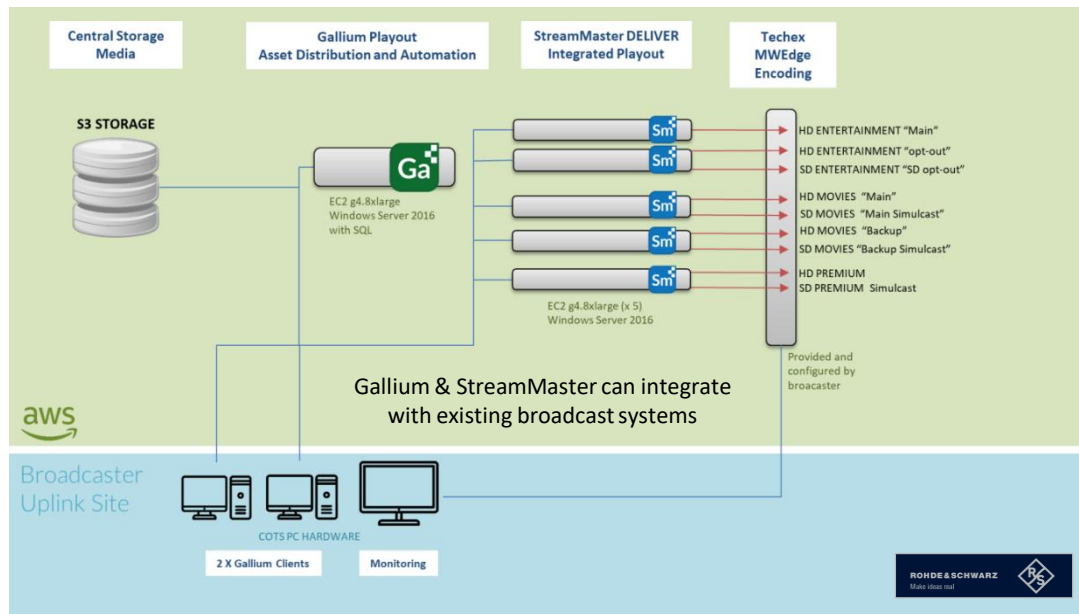
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