

Media Excel HERO New User Technical Introduction

THE STANDARD FOR MULTISCREEN TRANSCODING

LIVE & FILE / CLOUD & HEADEND / DISTRIBUTION & CONTRIBUTION

HERO LIVE

4K ULTRA-HD | HEVC
MULTI-STREAM EFFICIENCY VIDEO CODING

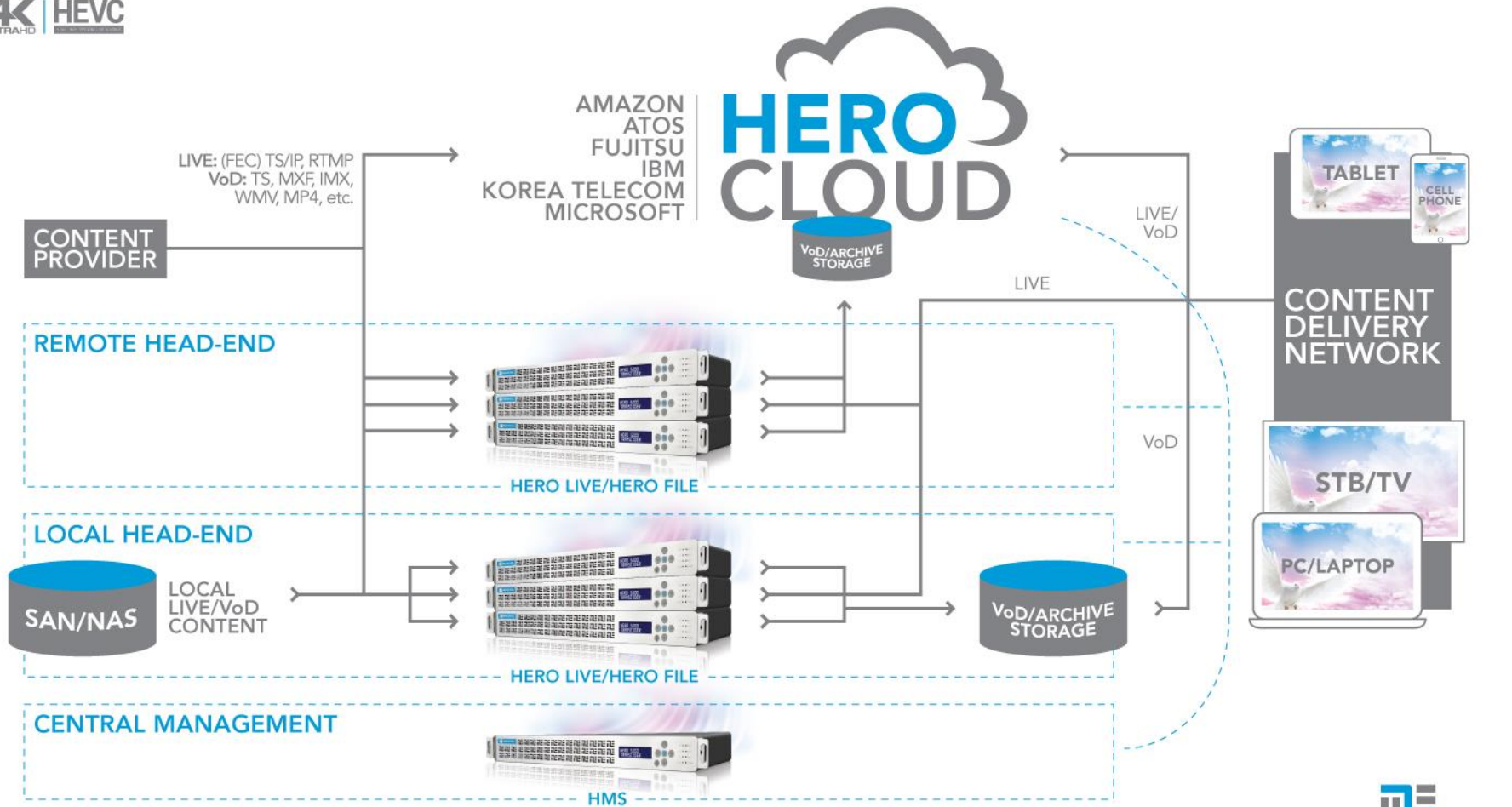
MEDIAEXCEL



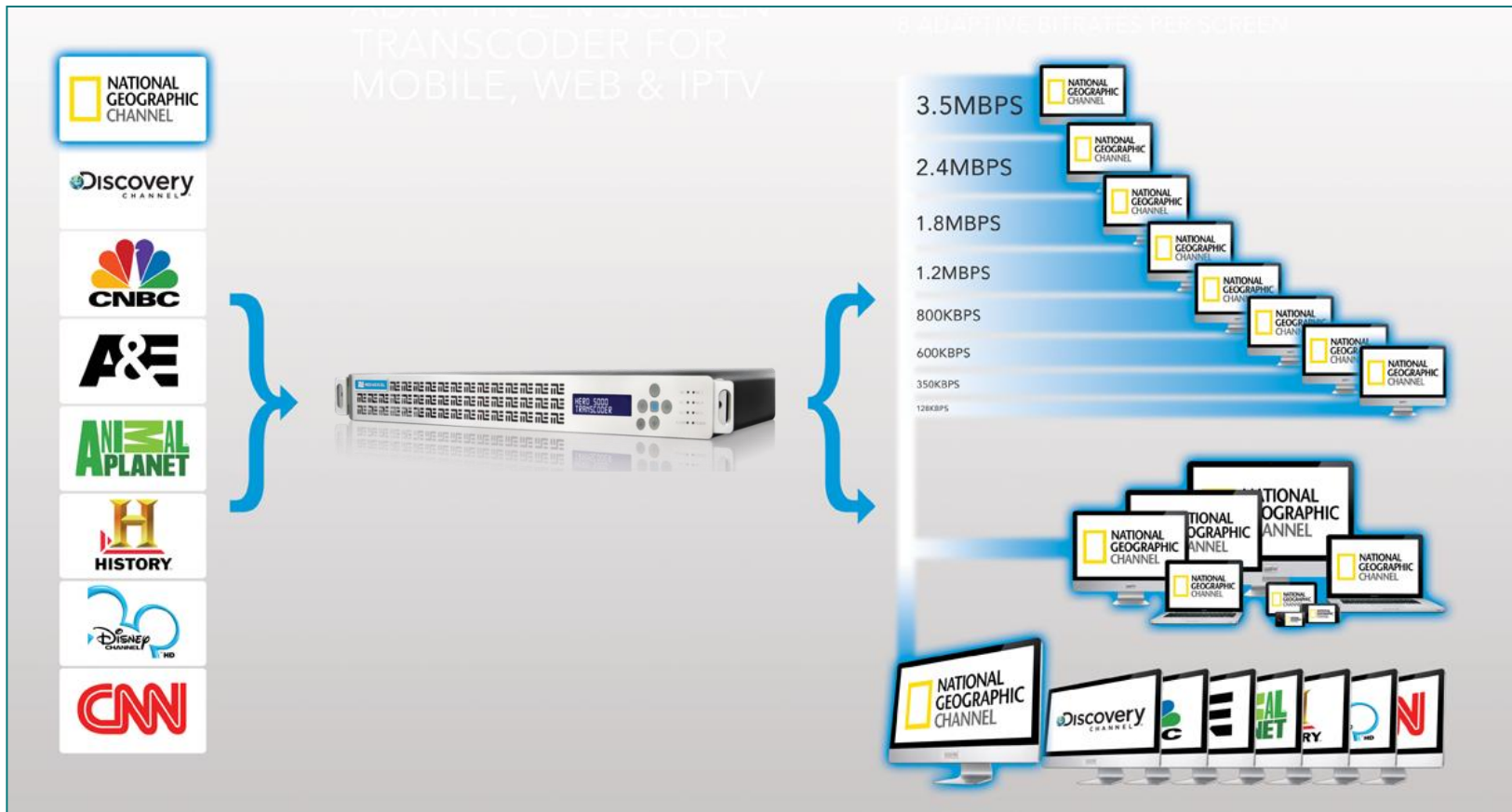
MEDIAEXCEL

EXCELLENCE IN TRANSCODING

HERO Topology



Multi-channel • Multi-screen • Multi-rate



HERO PLATFORM

- Multiple input feeds
 - Multiple Profiles (Bitrates/Screens/Resolutions) per Input
 - Multiple Delivery Technologies per Profile)

HMS & HERO Relationship

HMS

HMS: HERO Management System can control multiple HERO systems (physical or virtual) through one user interface.

The screenshot shows the HMS Dashboard with the following sections:

- MONITOR | CONFIGURE | EVENTS | SETTINGS**
- Dashboard** (Refresh | Admin | Multiviewer | HERO_Discovery)
- LIVE GROUPS** (All Live Groups | Live_Group | MoTVgrp | CTV_P2_Group | 00_Auto_Group)
 - All Live Groups (4 devices)**

10.0.0.107	ON	10.0.0.134	ON	10.0.0.228	ON	Lab #23	OFF
Manual: Stopped		Manual: Stopped		Manual: Running		Manual: Stopped	
Role: CTV #2		Role: CTV #2		Role: Customer - E		Role: 00 Role	
- FILE GROUPS** (All File Groups | File_Group | 00_Auto_File_Group)
 - All File Groups (1 device)**

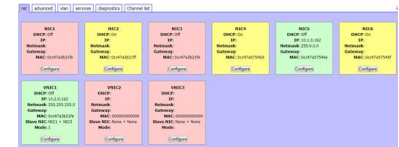
10.0.0.133	ON
Manual: Stopped	
Role: Maxout Role	

HERO Management System. © 2012 MediaExcel, Inc.
v. 3.25.131.0



HERO 4K/LIVE/FILE

HERO 4K/LIVE/FILE



HERO 4K/LIVE/FILE



HERO 4K/LIVE/FILE



HERO CLOUD

HMS: Management of Diverse Workflows



A single HMS platform can manage multiple Live and File Transcoding Groups simultaneously

IMPLEMENT DIVERSE PRACTICES PER GROUP/SITE TO MATCH DIVERSE SLA OBLIGATIONS:

- Diverse failover ratios (1:1, N+M, etc)
- Diverse detection/trigger thresholds (packet loss %, outage time, silence, frozen frame, etc)
- Diverse failover strategies (restart-in-place, retry-then-failover, failover-immediately, etc)

Ecosystem

HERO Transcoding/Encoding

Ingestion

DeMUX
Decode

Pre-Processing

Encode

Post-processing

MUX

Delivery

HMS Management

Configuration

Monitoring

High Availability

Technology Partners

CMS/NMS

Video Routing

Video Servers

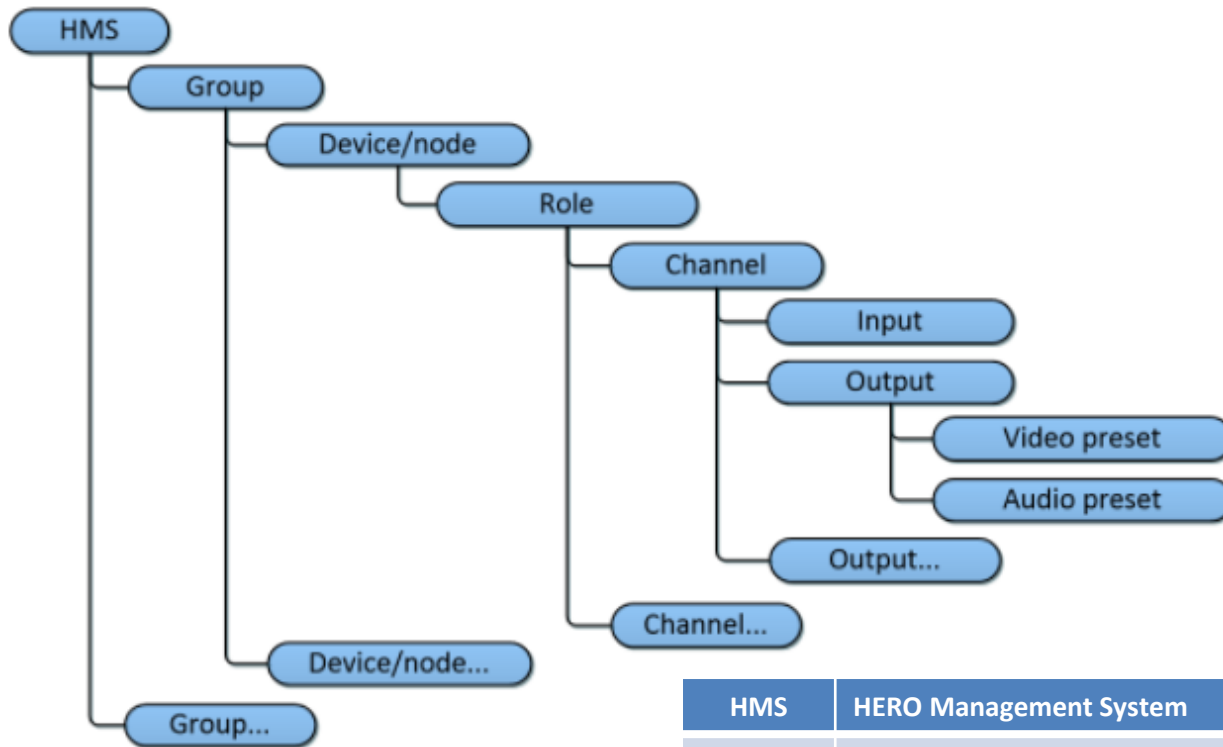
DRM/CAS

EPG/Middleware

CDNs

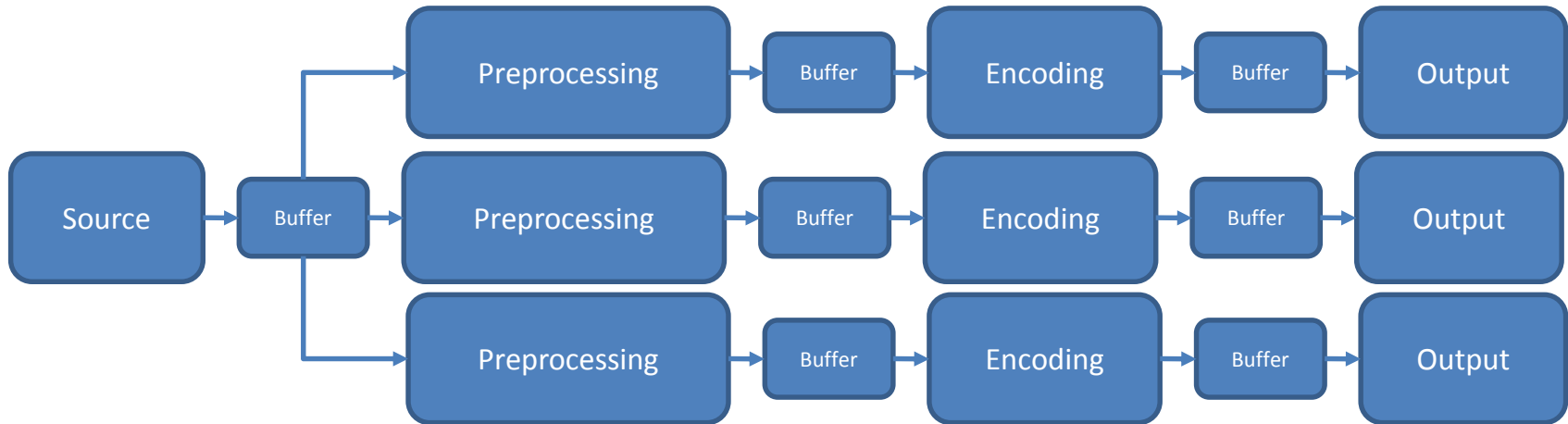
CE Devices
Players

BUILDING BLOCKS



HMS	HERO Management System
Group	A collection of Devices (HERO Encoders/Transcoders))
Device	A HERO appliance
Role	A collection of Channels
Channel	An encoding/transcoding task with a single input and one or more output streams
Input	Source data: video or audio, etc
Output	A profile consisting of video & audio presets, auxiliary data etc, in a container format

BUILDING BLOCKS



HMS: WEB UI

Dashboard [Refresh](#) | [Admin](#)

LIVE GROUPS All Live Groups | [Live](#)

All Live Groups (3 devices)

Live

[0] HERO2102 Manual: RunningON

Role: EXHIBITION CPU: 14.46 %

1		0d 00:01:41	DEMO-DASH-HLS-HSS-RTMP-REC-25	NIC1:
2			DEMO-DASH-HLS-HSS-RTMP-REC-2997	NIC2:
3			DEMO-DASH	
4			DEMO-HLS	
5			DEMO-RTMP	
6			DEMO-SMOOTH	
7			DEMO-TS	

[0] HERO2104 Manual: StoppedON

Role: EXHIBITION NIC1:

1			DEMO-DASH-HLS-HSS-RTMP-REC-25	
2			DEMO-DASH-HLS-HSS-RTMP-REC-2997	
3			DEMO-DASH	
4			DEMO-HLS	
5			DEMO-RTMP	
6			DEMO-SMOOTH	
7			DEMO-TS	

[0] HERO3104 Manual: StoppedOFF

Role: EXHIBITION

1			DEMO-DASH-HLS-HSS-RTMP-REC-25	
2			DEMO-DASH-HLS-HSS-RTMP-REC-2997	
3			DEMO-DASH	
4			DEMO-HLS	
5			DEMO-RTMP	
6			DEMO-SMOOTH	
7			DEMO-TS	

FILE GROUPS All File Groups | [File](#)

All File Groups (1 device)

File

[0] HERO2101 Manual: RunningON

Role: FILE NIC1:

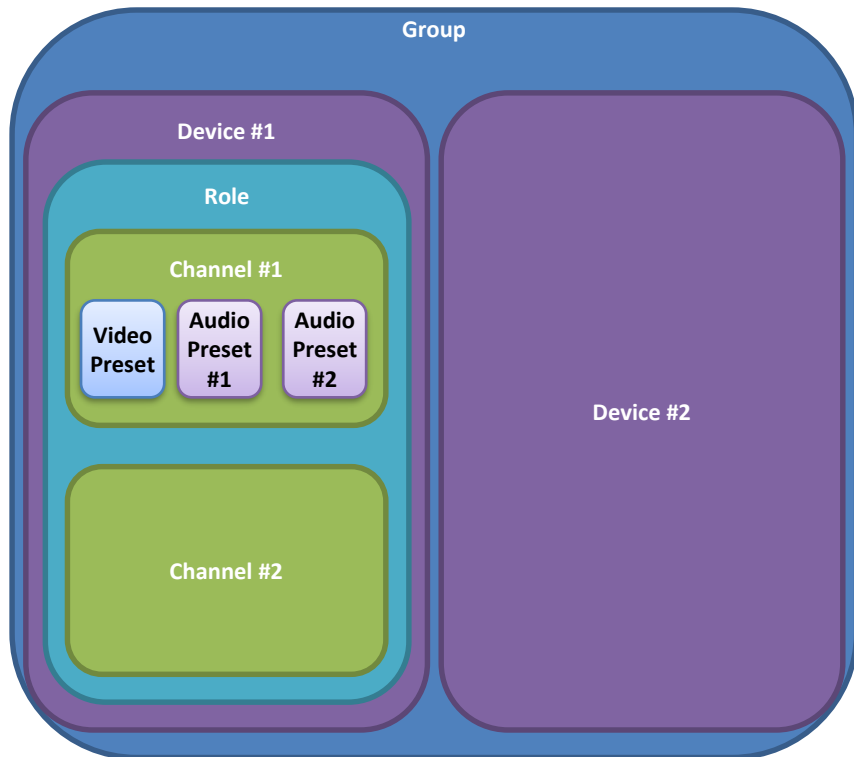
1			FILE	
2			FILE	

Time: 2018-04-20 09:29:25 PDT

User	Sev	Time	Group	Dev. Ch	Message	<input type="checkbox"/> Clear
admin	2	2018-04-20 09:28:25	HMS	HMS	Configuration is changed WatchFolder 'NAB2018' modified..	<input type="checkbox"/>

CHANNEL CREATION WORKFLOW

New Channel configuration starts from Audio/Video preset



Channel Creation Workflow:

