



Radio.Cloud

it's just smart.
[simple. mobile. agile. radio.
technology.]

Presented to Broadcasters Clinic
by Jim Hammond & Shawn Gilbert

October 11, 2022



The First Cloud-Based Automation System Certified as an Amazon Web Services Partner





Traditional Playout Pain Points

Expensive initial hardware & software costs

Repetitive manual updates to software

System interconnection between locations

Minimal localization must be done manually

More features requires more complex hardware

Radio.Cloud Solutions

Sustainability, Minimal hardware, SaaS

Automatic updates through the cloud

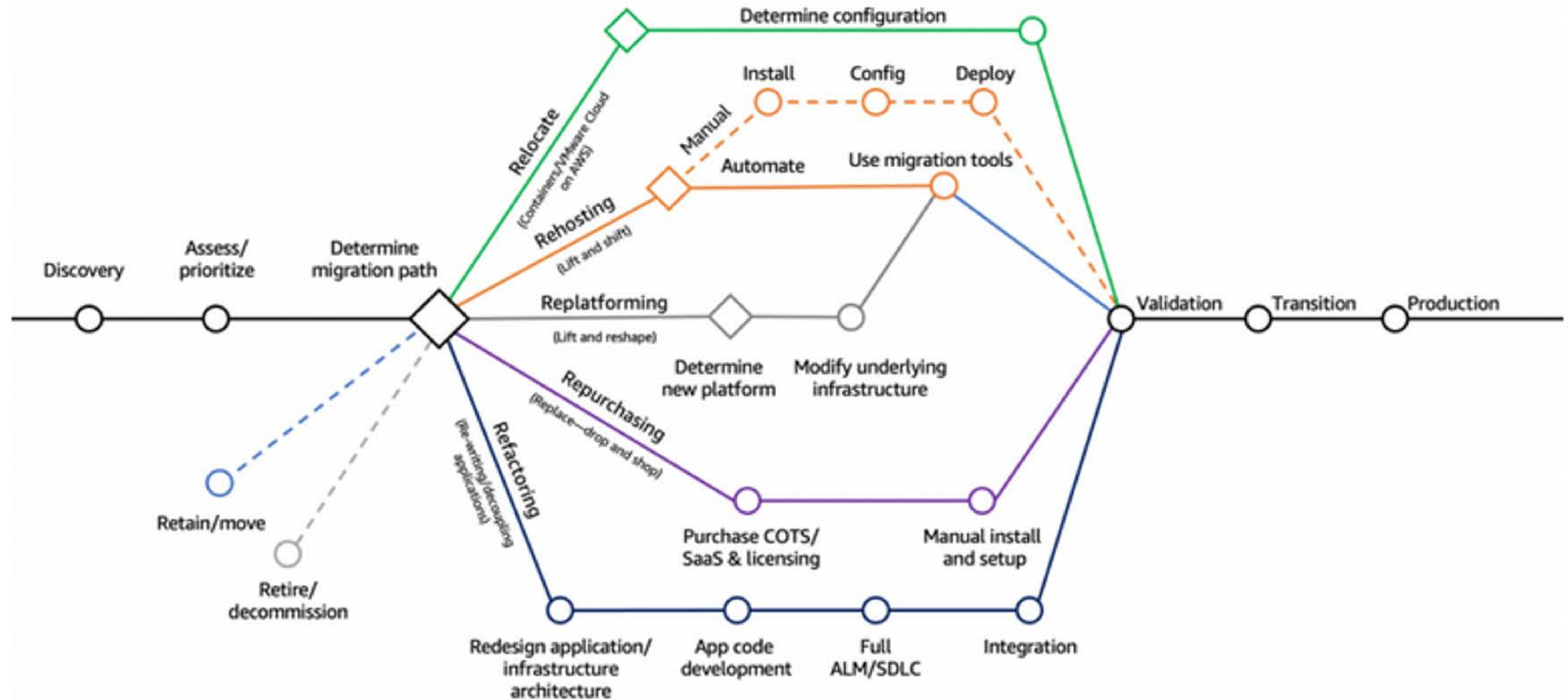
Locations connected through the cloud

Ultra-localization is done automatically

Heavy lifting of complex features done in cloud

Cloud-Native, Containers, and Virtual Machines

Migration Methods



Cloud-Native

- We run a full database and outsource many tasks to Amazon Simple Storage Service (S3)
- With S3 we have a backup of millions of audio files and get continual backups every five minutes
- Able to run microservices on the platform
- Attractive for its easy scalability and cost savings/optimization

Cloud-Native

- Lift-and-shift containers can run many applications/functions, but don't always harness the full power of the cloud
- Cloud-native containers are scalable and can be turned on and off when you need a certain application
- AWS Lambda: event-driven, serverless computing (available & secure)
- Examples are audio transcoding, playlist creation, saving a broadcast clock, and communication for speech to text

Why the Cloud?

- Security: Applying to highest international standards provided by AWS
- Safety: Guaranteed stability and quick backup recovery
- Durability: The ongoing existence of your data
- Availability: The ability to access your data (system uptime)
- Reliability: The probability that a system works as intended

Cloud-Native Formula

**

Cloud Infrastructure

+

Microservices

+

=

Containers

+

Continuous Delivery

+

Ongoing Development

The ability to run
maximum applications
on
minimum servers

**As defined by Cloud Native Computing Foundation (CNCF)

What is Radio.Cloud?

The first to market, 100% cloud-native automation, content management, and production platform. On-air for over 4 years with 160+ affiliates.

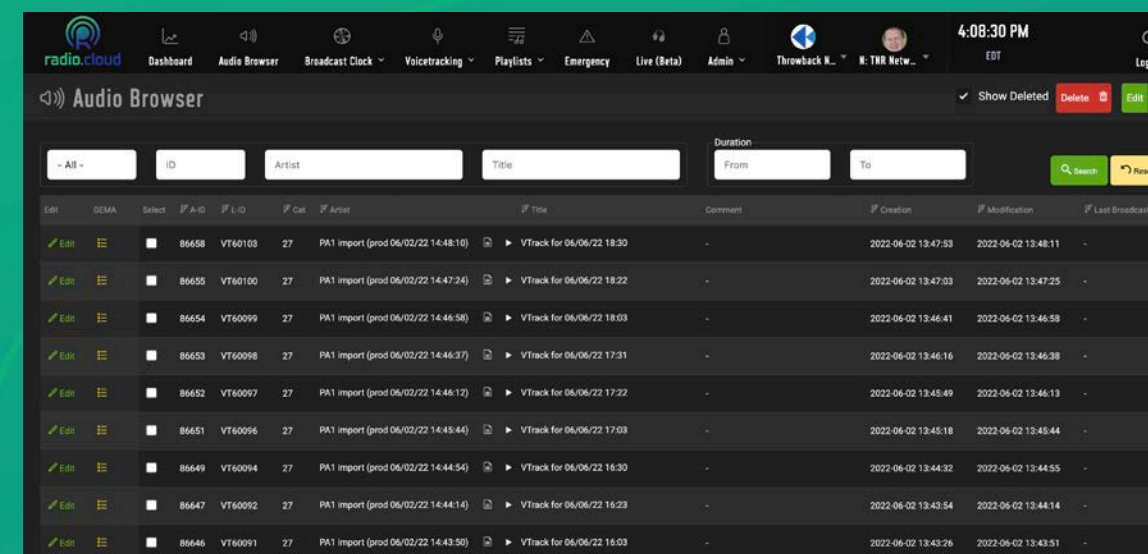
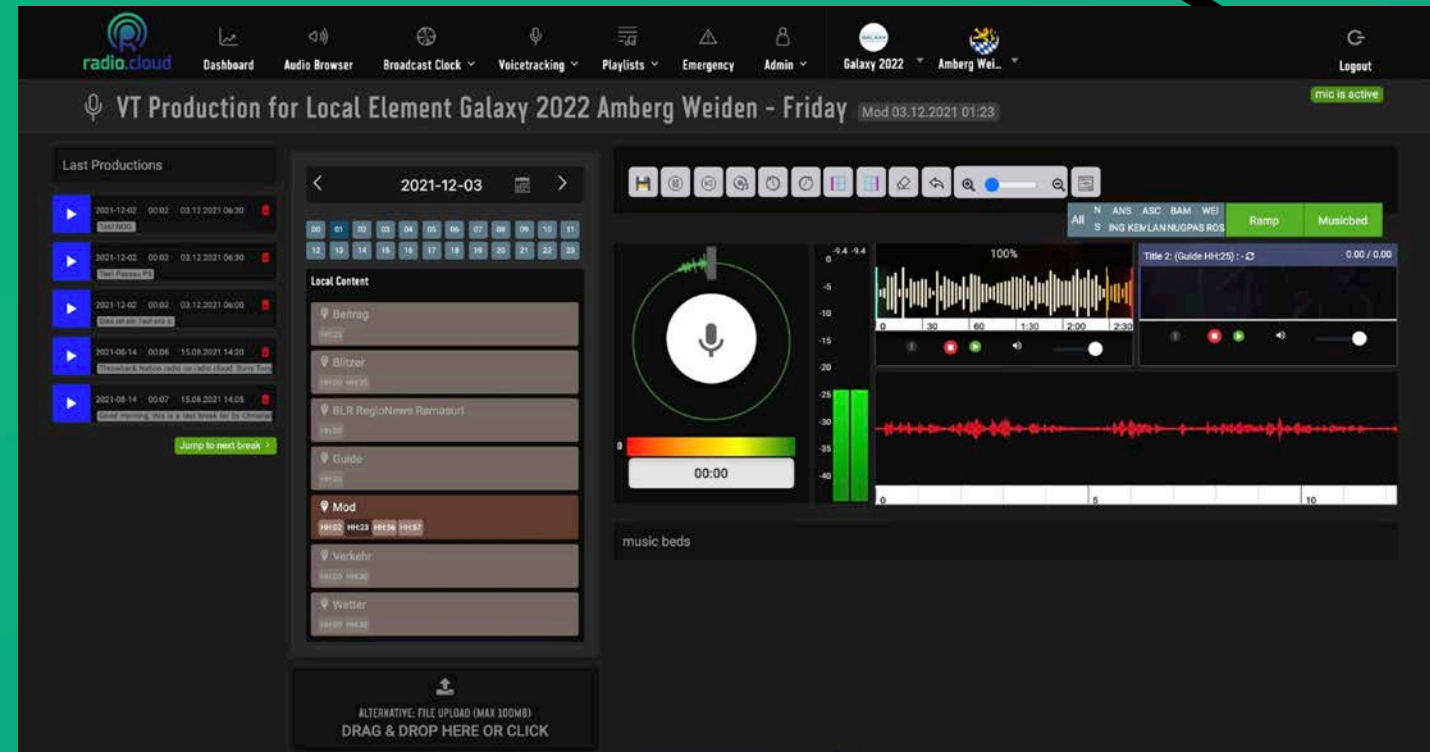
We can interface with existing automation systems. This lets stations with large capital expenses to gradually phase out legacy systems, allowing for hybrid operation at startup.

We support both live and network programming and revolutionize the way stations can effortlessly localize content.

Radio.Cloud Workflow



Voice Tracking

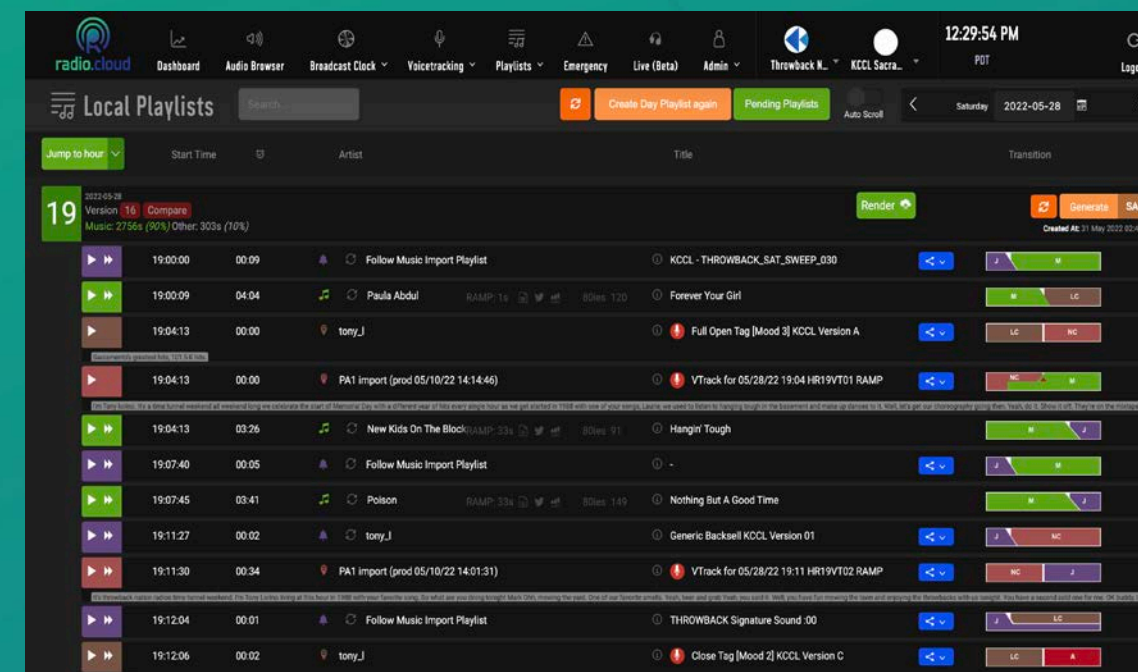


Content Management

Ingest



Logs



Playlist & Live-Assist Platform



Playout



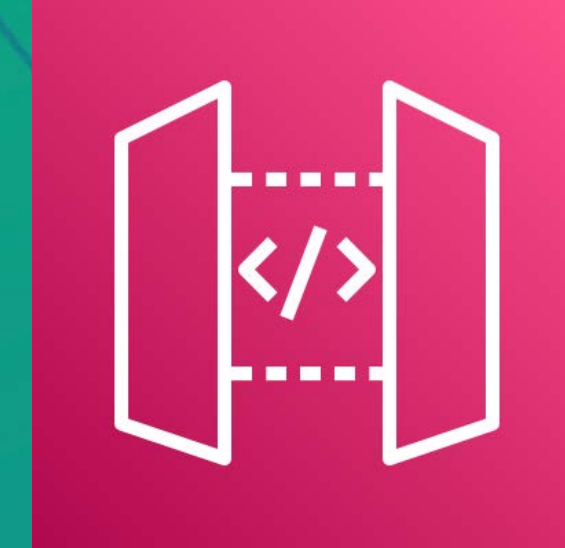
Radio.Cloud - AWS Services



AWS
Lambda



Amazon
Transcribe



Amazon
API Gateway



Amazon
S3



AWS
Managed Services



Amazon
ElastiCache

10 Radio.Cloud Highlights

The screenshot displays the Radio.Cloud Voicetracking Module interface. At the top, a navigation bar includes icons for Dashboard, Audio Browser, Broadcast Clock, Voicetracking, Playlists, Emergency, and Admin, along with station logos for Galaxy 2022 and Amberg Weiden. The main header shows 'VT Production for Local Element Galaxy 2022 Amberg Weiden - Friday' and 'Mod 03.12.2021 01:23', with a 'mic is active' status indicator.

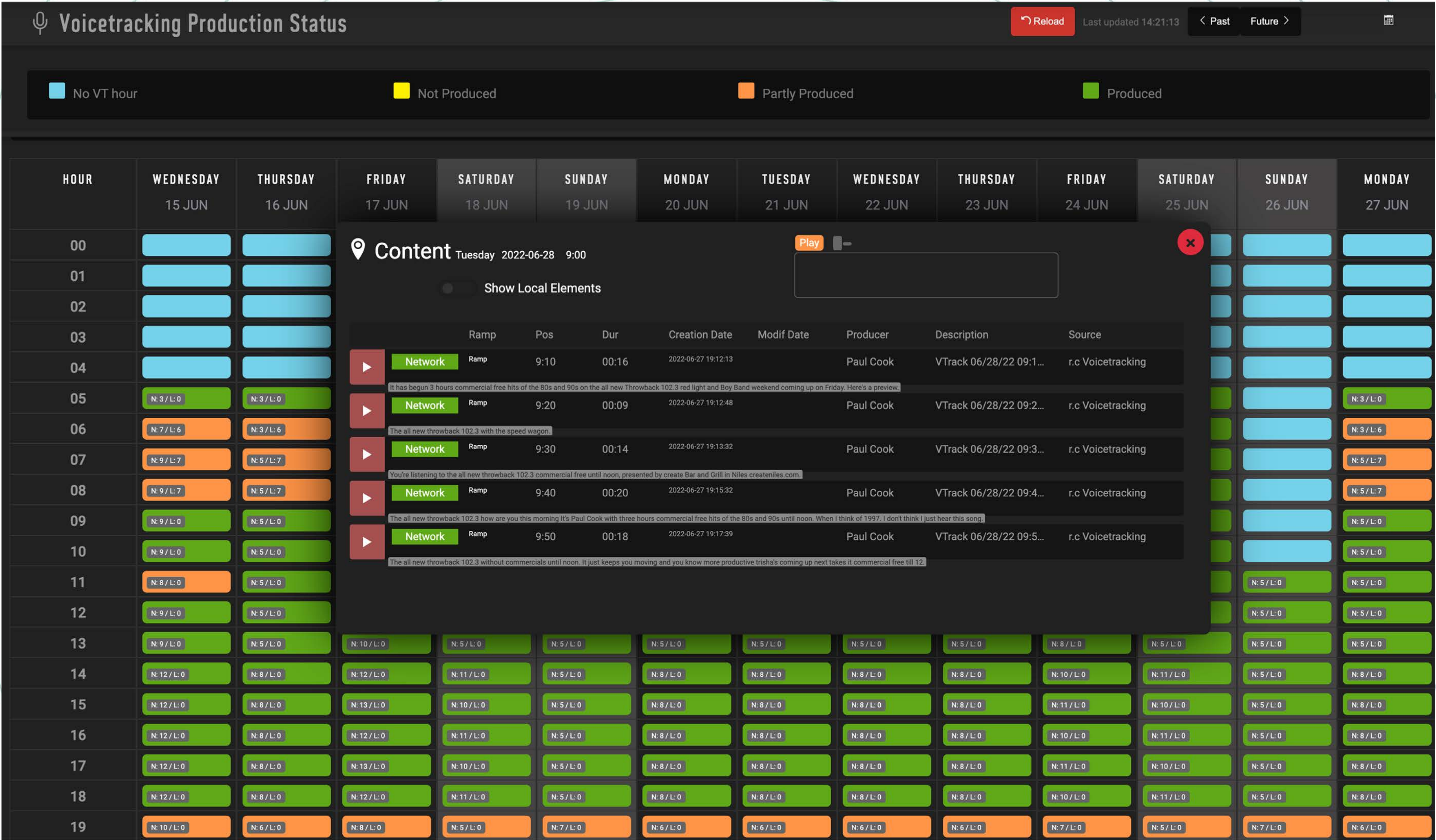
The interface is divided into several sections:

- Last Productions:** A list of recent productions with timestamps and titles like 'Test NOG.', 'Test Passau PS', and 'Dies ist ein Test ero s.'.
- Local Content:** A calendar view for 2021-12-03 showing a grid of time slots (00 to 23) and a list of content items including 'Beitrag', 'Blitzer', 'BLR RegioNews Ramasuri', 'Guide', 'Mod', 'Verkehr', and 'Wetter'.
- Audio Player:** A central section featuring a microphone icon, a volume slider, and a waveform display. It includes a 'music beds' section at the bottom.
- Controls:** A row of icons for various functions like play, stop, and search, and a 'Jump to next break' button.

At the bottom, there is a section for 'ALTERNATIVE: FILE UPLOAD (MAX 100MB) DRAG & DROP HERE OR CLICK'.

Web-Based Voicetracking Module

10 Radio.Cloud Highlights



Voicetracking Status Tracker & Details

Share content between
stations to work
smarter, not harder

Content

Friday 2022-07-29 0:00

Play

Edit

Show Local Elements

	F1	F2	F3	Ramp	Pos	Dur	Creation Date	Producer
<div></div>	<div>F2</div> <div>F1 all</div> <div>N →</div> <div>F2 all</div>			<div>Ramp</div>	1	00:25	2022-07-28 14:51:22	Steffi
<div>In those minutes, a day has dawned that our kids have probably been waiting for all school year. The last day of school before the Bavarian summer holidays, yes, and they are urgently needed ag</div>								
<div></div>	<div>F2</div> <div>F1 all</div> <div>N →</div> <div>F2 all</div>			<div>Ramp</div>	2	01:03	2022-07-28 14:51:22	Steffi
<div>This Friday is only a few minutes old, but I would like to congratulate you on your birthday today on July 29th. Christian Tramitz turns 67. We know him as Ranger Captain Cork and in dozens of ot</div>								
<div></div>	<div>F2</div> <div>F1 all</div> <div>N →</div>			<div>Ramp</div>	3	00:36	2022-07-28 14:51:22	Steffi
<div>Hui, da Schau an Queen and Adam Lambert now also have opera arias in their program. At a show in Bologna they covered the opera Nessun dorma. It became world-famous thanks to the opera</div>								
<div></div>		<div>F2 all</div>		<div>Ramp</div>	3	00:19	2022-07-28 14:51:22	Steffi
<div>Today, on Friday, only the last day of school has to be completed, then it's off to the summer holidays. Yes, and if you are leaving right away, have a nice holiday, good preparation, yes, we are travel</div>								
<div></div>	<div>F2</div> <div>F1 all</div> <div>N →</div> <div>F2 all</div>			<div>Ramp</div>	4	01:21	2022-07-28 14:51:22	Steffi
<div>A very special cult ends today, Friday. So the series, what Lindenstrasse was for us in Germany, that was for the Australians and especially the English, the TV series Neighbors today from 10:00 p</div>								

Custom local
voicetracks

Content

Friday 2022-07-29 0:00

Play

Edit

Show Local Elements



	F1	F2	F3	Ramp	Pos	Dur	Creation Date	Producer
<div><div></div><div></div></div>	<div><div>F2</div><div>F1 all</div><div>N →</div><div>F2 all</div></div>			<div>Ramp</div>	1	00:25	2022-07-28 14:51:22	Steffi
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Shared network voicetracks

10 Radio.Cloud Highlights


The screenshot displays the Radio.Cloud live-assist interface. At the top, the 'radio.cloud' logo and '101.5 K-HITS' branding are visible. The interface includes a 'Select radio date-time' section with a calendar icon showing '2022-06-28:14'. Mode buttons for 'Manual', 'Studio Stand By', 'Practice Mode', and 'PGM1' (highlighted in red) are present. A digital clock shows '14:32:21 TUE 28 JUN'. The main area features a playlist on the left with tracks like 'Rick Springfield - Jessie's Girl' and 'Pet Shop Boys - West End Girls'. The center section shows 'PLAYER 1' through 'PLAYER 3' and 'ANDREW:' with their respective time displays and volume meters. To the right, there are microphone status indicators for 'MIC 2', 'MIC 3', and 'MIC 4', each with a 'MUT' (Mute) and 'PFL' (Pre-Fader Listen) button. A red arrow points to the 'MIC 2' button, which is labeled 'Invite button' in the text overlay. The bottom right corner shows a 'PHONE' status indicator and a 'Drag here' button.

Cloud-Based Live-Assist Interface





Select radio date-time


 2022-06-28:14

Manual



Studio Stand By


Practice Mode

PGM1




14:32:21
TUE 28 JUN







-[Throwback 102.3]
-[T102.3 AFTERNOON LEGAL ID :00]




Rick Springfield
Jessie's Girl




Pet Shop Boys
West End Girls




-[Throwback 102.3]
-[T1023 Generic Over Ramp 7:04]




Vanilla Ice
Ice Ice Baby




-[Throwback 102.3]
-[T1023 Book Recap :00]




Live Break
Commercial Break - AudioVault Automation




-[Trisha Moore]
-[T1023 JOCK JINGLE D :00]




Stevie Nicks
Edge Of Seventeen




New Kids On The Block
Hangin' Tough




-[Throwback 102.3]
-[T1023 GENERIC 2 :00]




DNA Featuring Suzanne Vega
Tom's Diner



-[The Greatest Hits of the 80s & 90s]
-[T1023 POS JINGLE A :00]




John Mellencamp
Jack And Diane

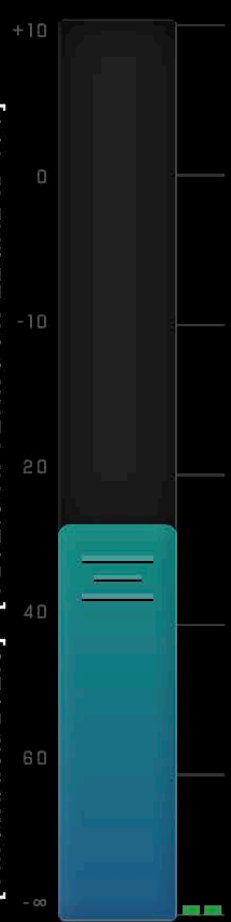


Dexy's Midnight Runners
Come On Eileen

PLAYER 1

01:08.5
00:00.0






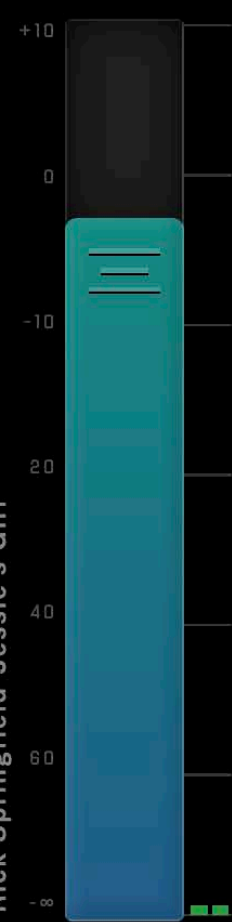
MUT PFL

ON

PLAYER 2

00:00.0
00:00.0







MUT PFL

OFF

PLAYER 3

00:00.0
00:00.0



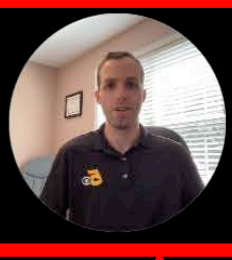



MUT PFL

OFF

ANDREW:

00:48.2






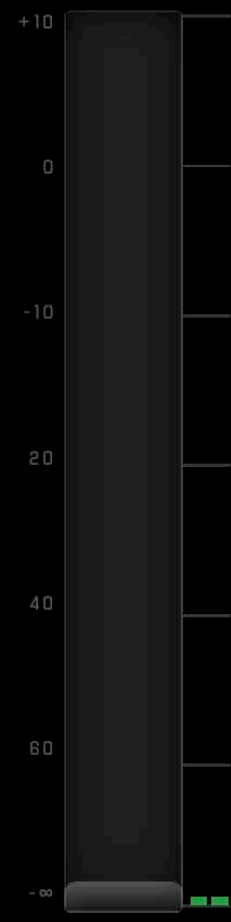
MUT PFL

ON

MIC 2

00:00.0






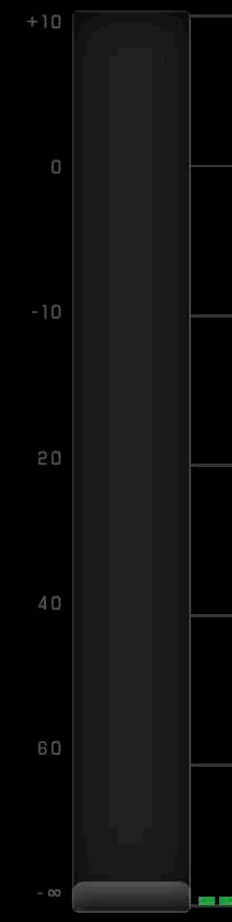
MUT PFL

OFF

MIC 3

00:00.0






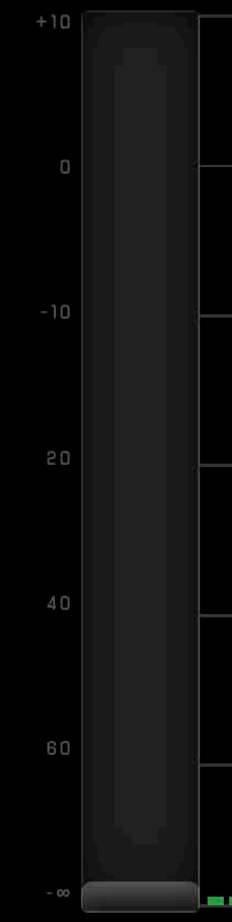
MUT PFL

OFF

MIC 4

00:00.0






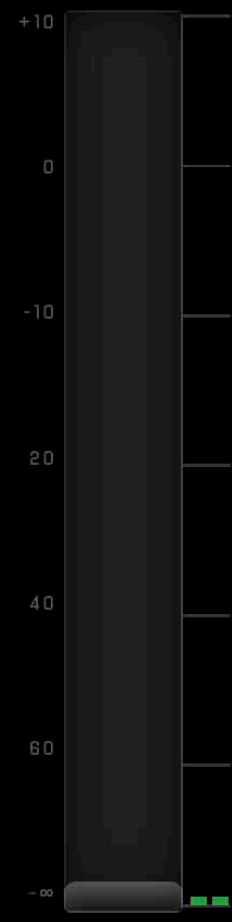
MUT PFL

OFF

PHONE

00:00.0
00:00.0





MUT PFL

OFF

00 / 00
Drag here

00 / 00
Drag here

00 / 00
Drag here

00:05:17/00:12:35
Edge Of Seventeen

00:00:06/00:21:37
-[T1023 GENERIC 2:00]


00 / 00
Drag here

00 / 00
Drag here

00 / 00
Drag here

00 / 00
Drag here

Ability to see co-hosts & guests on video


radio.cloud

What about Latency?

- AI supported automation system – latency not an issue
- New Live Cloud Studio – latency is our main focus and we currently run four mediaservers (East US, West US, Singapore, Germany)
- WebRTC + Opus + local mediaservers providing latency < 100...150 ms – delay for audio element or remote DJs not audible.
- Announcer microphone audio won't be routed through cloud infrastructure (limit 10 ms)



AWS Regions & Availability Zones

AWS Regions & Availability



10 Radio.Cloud Highlights

Audio Browser

UploadShow DeletedDeleteEdit

- All -IDPrinceTitle

DurationFromTo

SearchReset

Edit	GEMA	Select	A-ID	L-ID	Cat	Title	Comment	Creation	Modification	Last Broadcast	F Dur	Dur	Ramp	MB	Metadata	Filler	Deca
		<input type="checkbox"/>	211411882		102	DJ Jazzy Jeff & The Fresh Prince											
		<input type="checkbox"/>	211410750		102	Prince											
		<input type="checkbox"/>	211410580		102	Princess Bride	08/01/22 18:20 RAMP	-	2022-08-01 10:12:07	2022-08-01 10:12:07	-	00:22.344	00:22.344	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	211410750		102	Sheena Easton feat. Prince	08/01/22 18:10 RAMP	-	2022-08-01 10:11:27	2022-08-01 10:11:27	-	00:21.264	00:21.264	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	211410580		102	VTrack	08/01/22 17:50 RAMP	-	2022-08-01 10:10:42	2022-08-01 10:10:42	-	00:09.384	00:09.384	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21149746-		102	VTrack	08/01/22 17:40 RAMP	-	2022-08-01 10:10:18	2022-08-01 10:10:18	-	00:36.144	00:36.144	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21148318-		102	VTrack	08/01/22 17:30 RAMP	-	2022-08-01 10:09:10	2022-08-01 10:09:10	-	00:31.344	00:31.344	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21147940-		102	VTrack	08/01/22 17:20 RAMP	-	2022-08-01 10:08:16	2022-08-01 10:08:16	-	00:12.336	00:12.336	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21147118-		102	VTrack	08/01/22 17:10 RAMP	-	2022-08-01 10:07:45	2022-08-01 10:07:45	-	00:18.624	00:18.624	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21145672-		102	VTrack	08/01/22 16:50 RAMP	-	2022-08-01 10:06:59	2022-08-01 10:06:59	-	00:15.864	00:15.864	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21144612-		102	VTrack	08/01/22 16:40 RAMP	-	2022-08-01 10:05:49	2022-08-01 10:05:49	-	00:39.504	00:39.504	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21143377-		102	VTrack	08/01/22 16:30 RAMP	-	2022-08-01 10:04:34	2022-08-01 10:04:34	-	00:22.896	00:22.896	<input checked="" type="checkbox"/>			
		<input type="checkbox"/>	21142623-		102	VTrack	08/01/22 16:20 RAMP	-	2022-08-01 10:03:04	2022-08-01 10:03:04	-	00:12.864	00:12.864	<input checked="" type="checkbox"/>			

Content Management via Audio Browser
technology.



- ✓ - All -
- 27 Voice 18175
- 40 MU2 2121
- 41 JIN 165
- 42 SWP 219
- 43 PRO 212
- 44 SW8 55
- 45 SW2 1071
- 47 MU3 290
- 49 COM 6
- 52 BED 47
- 56 MU4 661
- 57 SW4 199
- 102 VoiceTrack r.c Network 14855
- 108 Jingles Wx Checks 95
- 111 retro show 13
- 113 TNR Promo RetroPopReunion 64
- 180 AdLarge Spots 54
- 201 publicaffairs 2
- 26 Command 0
- 38 Notes 0
- 46 MU8 0
- 48 AFL 0

Audio Browser

Upload Show Deleted Delete Edit

- All -

ID

Prince

Title

Duration

From

To

Search

Reset

Edit	GEMA	Select	A-ID	L-ID	Cat	Title	Comment	Creation	Modification	Last Broadcast	F Dur	Dur	Ramp	MB	Metadata	Filler	Deca
		<input type="checkbox"/>	211411882		102	DJ Jazzy Jeff & The Fresh Prince											
						Prince											
		<input type="checkbox"/>	211410750		102	Princess Bride		08/01/22 18:20 RAMP	-	2022-08-01 10:12:07	2022-08-01 10:12:07	-	00:22.344	00:22.344	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	211410750		102	Sheena Easton feat. Prince		08/01/22 18:10 RAMP	-	2022-08-01 10:11:27	2022-08-01 10:11:27	-	00:21.264	00:21.264	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	211410580		102	VTrack		08/01/22 17:50 RAMP	-	2022-08-01 10:10:42	2022-08-01 10:10:42	-	00:09.384	00:09.384	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21149746-		102	VTrack		08/01/22 17:40 RAMP	-	2022-08-01 10:10:18	2022-08-01 10:10:18	-	00:36.144	00:36.144	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21148318-		102	VTrack		08/01/22 17:30 RAMP	-	2022-08-01 10:09:10	2022-08-01 10:09:10	-	00:31.344	00:31.344	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21147940-		102	VTrack		08/01/22 17:20 RAMP	-	2022-08-01 10:08:16	2022-08-01 10:08:16	-	00:12.336	00:12.336	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21147118-		102	VTrack		08/01/22 17:10 RAMP	-	2022-08-01 10:07:45	2022-08-01 10:07:45	-	00:18.624	00:18.624	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21145672-		102	VTrack		08/01/22 16:50 RAMP	-	2022-08-01 10:06:59	2022-08-01 10:06:59	-	00:15.864	00:15.864	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21144612-		102	VTrack		08/01/22 16:40 RAMP	-	2022-08-01 10:05:49	2022-08-01 10:05:49	-	00:39.504	00:39.504	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21143377-		102	VTrack		08/01/22 16:30 RAMP	-	2022-08-01 10:04:34	2022-08-01 10:04:34	-	00:22.896	00:22.896	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	21142623-		102	VTrack		08/01/22 16:20 RAMP	-	2022-08-01 10:03:04	2022-08-01 10:03:04	-	00:12.864	00:12.864	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Store your audio in as many categories as you'd like

technology.





Audio Browser

Upload

Show Deleted

Delete

Edit

- All -

ID

Prince

Title

Duration

From

To

Search

Reset

Edit	GEMA	Select	A-ID	L-ID	Cat	Title	Comment	Creation	Modification	Last Broadcast	F Dur	Dur	Ramp	MB	Metadata	Filler	Deca
<div>Edit</div>	<div></div>	<div></div>	211411882	102		DJ Jazzy Jeff & The Fresh Prince											
						Prince											
						Princess Bride											
						Sheena Easton feat. Prince											
<div>Edit</div>	<div></div>	<div></div>	211410750	102				08/01/22 18:20 RAMP	-	2022-08-01 10:12:07	2022-08-01 10:12:07	-	00:22.344	00:22.344	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	211410580	102	VTrack		<div></div>	08/01/22 17:50 RAMP	-	2022-08-01 10:11:27	2022-08-01 10:11:27	-	00:21.264	00:21.264	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	211410580	102	VTrack		<div></div>	08/01/22 17:50 RAMP	-	2022-08-01 10:10:42	2022-08-01 10:10:42	-	00:09.384	00:09.384	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21149746-	102	VTrack		<div></div>	08/01/22 17:40 RAMP	-	2022-08-01 10:10:18	2022-08-01 10:10:18	-	00:36.144	00:36.144	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21148318-	102	VTrack		<div></div>	08/01/22 17:30 RAMP	-	2022-08-01 10:10:18	2022-08-01 10:10:18	-	00:36.144	00:36.144	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21148318-	102	VTrack		<div></div>	08/01/22 17:30 RAMP	-	2022-08-01 10:09:10	2022-08-01 10:09:10	-	00:31.344	00:31.344	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21147940-	102	VTrack		<div></div>	08/01/22 17:20 RAMP	-	2022-08-01 10:09:10	2022-08-01 10:09:10	-	00:31.344	00:31.344	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21147940-	102	VTrack		<div></div>	08/01/22 17:20 RAMP	-	2022-08-01 10:08:16	2022-08-01 10:08:16	-	00:12.336	00:12.336	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21147118-	102	VTrack		<div></div>	08/01/22 17:10 RAMP	-	2022-08-01 10:08:16	2022-08-01 10:08:16	-	00:12.336	00:12.336	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21147118-	102	VTrack		<div></div>	08/01/22 17:10 RAMP	-	2022-08-01 10:07:45	2022-08-01 10:07:45	-	00:18.624	00:18.624	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21145672-	102	VTrack		<div></div>	08/01/22 16:50 RAMP	-	2022-08-01 10:07:45	2022-08-01 10:07:45	-	00:18.624	00:18.624	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21145672-	102	VTrack		<div></div>	08/01/22 16:50 RAMP	-	2022-08-01 10:06:59	2022-08-01 10:06:59	-	00:15.864	00:15.864	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21144612-	102	VTrack		<div></div>	08/01/22 16:40 RAMP	-	2022-08-01 10:06:59	2022-08-01 10:06:59	-	00:15.864	00:15.864	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21144612-	102	VTrack		<div></div>	08/01/22 16:40 RAMP	-	2022-08-01 10:05:49	2022-08-01 10:05:49	-	00:39.504	00:39.504	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21143377-	102	VTrack		<div></div>	08/01/22 16:30 RAMP	-	2022-08-01 10:05:49	2022-08-01 10:05:49	-	00:39.504	00:39.504	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21143377-	102	VTrack		<div></div>	08/01/22 16:30 RAMP	-	2022-08-01 10:04:34	2022-08-01 10:04:34	-	00:22.896	00:22.896	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21142623-	102	VTrack		<div></div>	08/01/22 16:20 RAMP	-	2022-08-01 10:04:34	2022-08-01 10:04:34	-	00:22.896	00:22.896	<div></div>	<div></div>	<div></div>
<div>Edit</div>	<div></div>	<div></div>	21142623-	102	VTrack		<div></div>	08/01/22 16:20 RAMP	-	2022-08-01 10:03:04	2022-08-01 10:03:04	-	00:12.864	00:12.864	<div></div>	<div></div>	<div></div>

Upload audio directly into your browser
technology.



10 Radio.Cloud Highlights

Audio Editor
Master length: 03:29.331
Length: 03:29.331

Prince
Raspberry Beret
A-ID: 478
L-ID: 6467
Match with artist
Mood: General 3
Category: 40 MU2 2121
Create date: 2022-02-02 11:27:17
Modify date: 2022-02-02 11:27:17
Modify user:
Released Year
Decade: 80ies
Comment: -
ISRC: -
Local: -
Producer: -
Start - End -

Intro
Outro: CutOut

00:00 00:15 00:30 00:45 01:00 01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15

Play Aux 00:00.000 100% 100% Jump 50 ms

General Timing

Cut In	←		→	⌘	Set	🔊	Test	🗑️	Delete
Fade In	←		→	⌘	Set	🔊	Test	🗑️	Delete
Intro	←	00:23.621	→	⌘	Set	🔊	Test	🗑️	Delete
Hook In	←		→	⌘	Set	🔊	Test	🗑️	Delete
Hook Out	←		→	⌘	Set	🔊	Test	🗑️	Delete
Outro	←	03:18.892	→	⌘	Set	🔊	Test	🗑️	Delete
Ducking 1	←		→	⌘	Set	🔊	Test	🗑️	Delete
Ducking 2	←		→	⌘	Set	🔊	Test	🗑️	Delete

Save Cancel

General Timing

Alternative Cut In 1

Cut In alt 1	←		→	⌘	Set	🔊	Test	🗑️	Delete
Fade In alt 1	←		→	⌘	Set	🔊	Test	🗑️	Delete

Alternative Cut In 2

Cut In alt 2	←		→	⌘	Set	🔊	Test	🗑️	Delete
Fade In alt 2	←		→	⌘	Set	🔊	Test	🗑️	Delete

Alternative Mix 1

Fade Out alt 1	←		→	⌘	Set	🔊	Test	🗑️	Delete
Mix alt 1	←		→	⌘	Set	🔊	Test	🗑️	Delete
Cut Out alt 1	←		→	⌘	Set	🔊	Test	🗑️	Delete

Alternative Mix 2

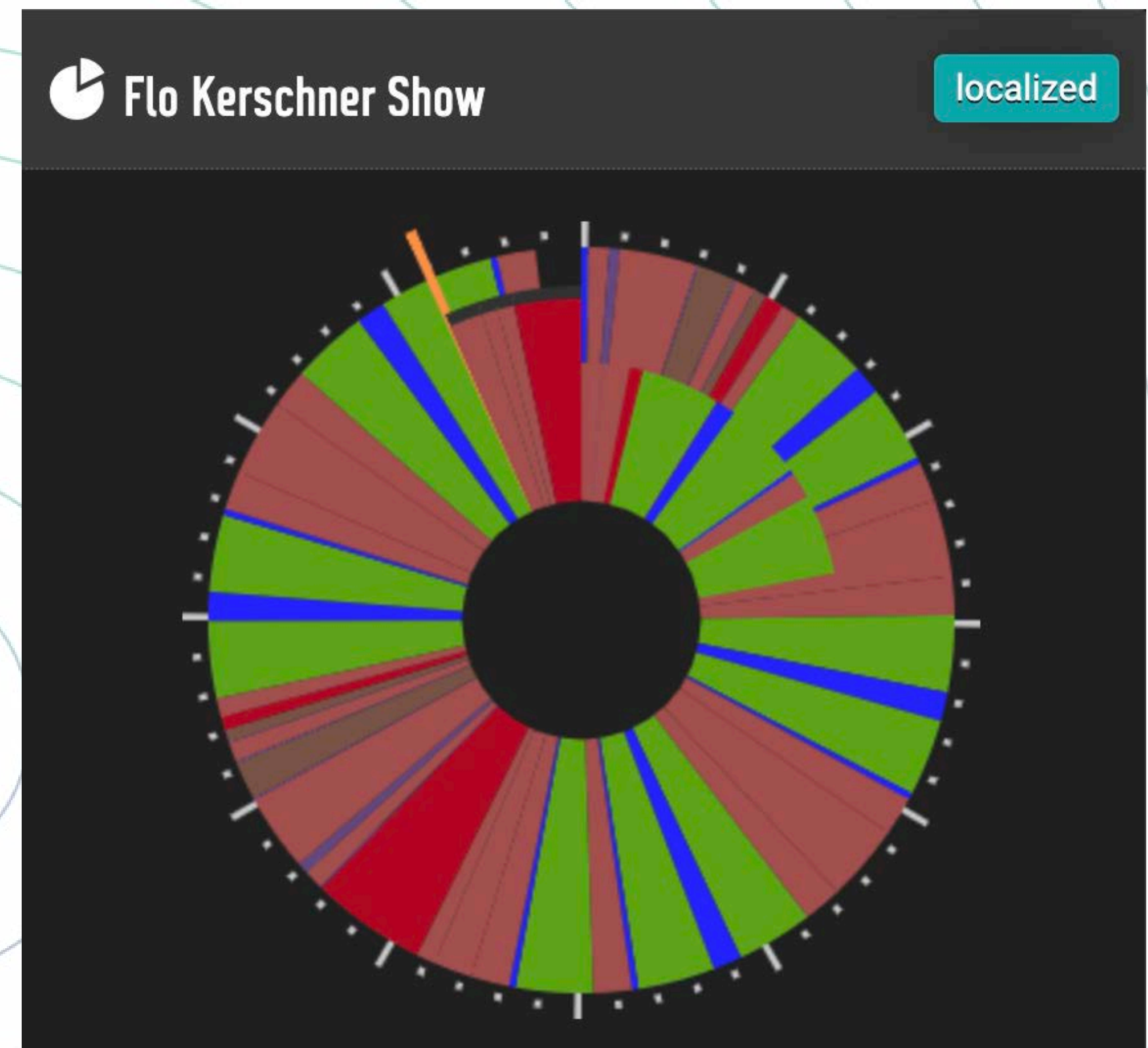
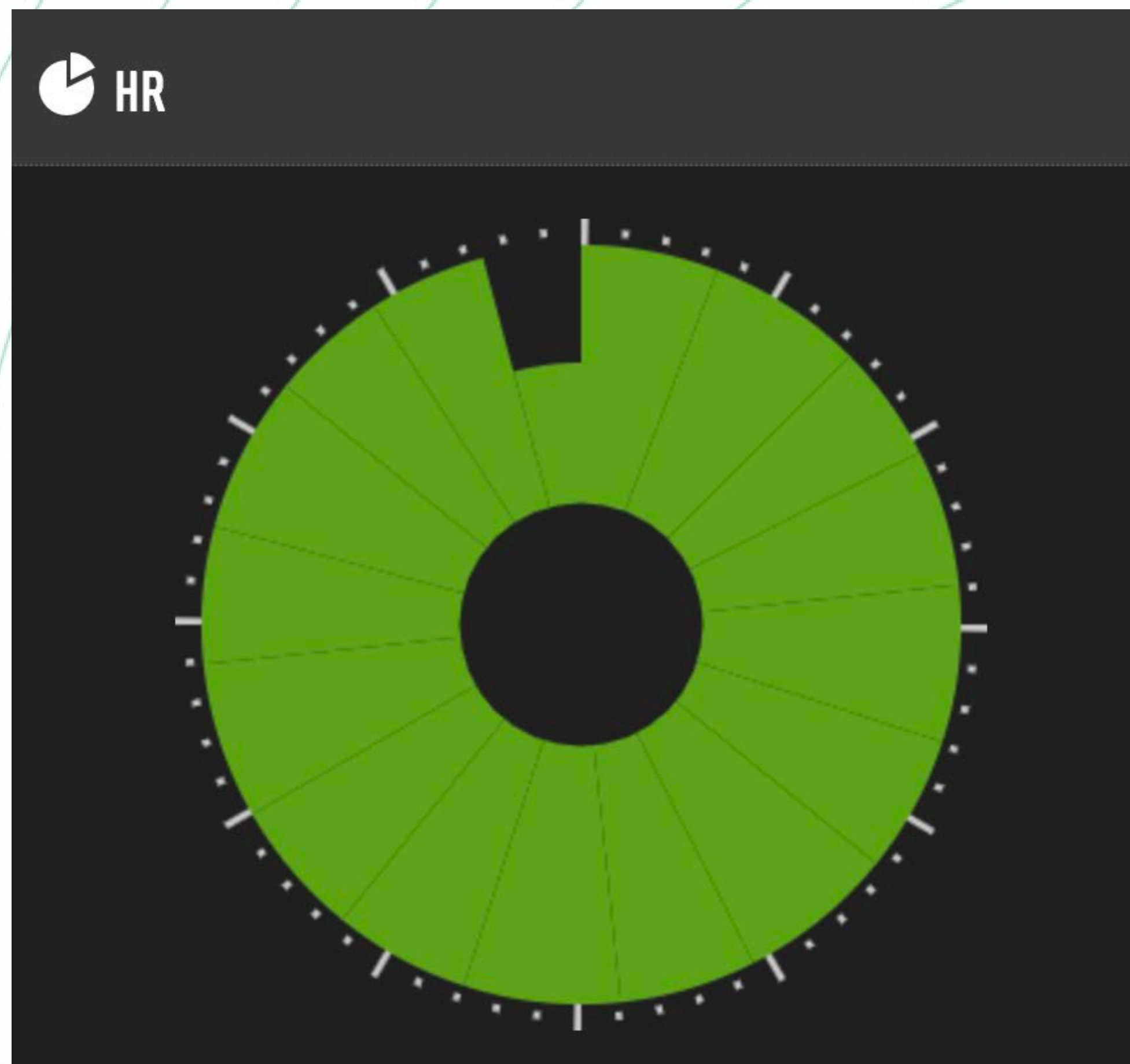
Fade Out alt 2	←		→	⌘	Set	🔊	Test	🗑️	Delete
Mix alt 2	←		→	⌘	Set	🔊	Test	🗑️	Delete
Cut Out alt 2	←		→	⌘	Set	🔊	Test	🗑️	Delete

Set Multiple Mixpoints with the Audio Editor

10 Radio.Cloud Highlights

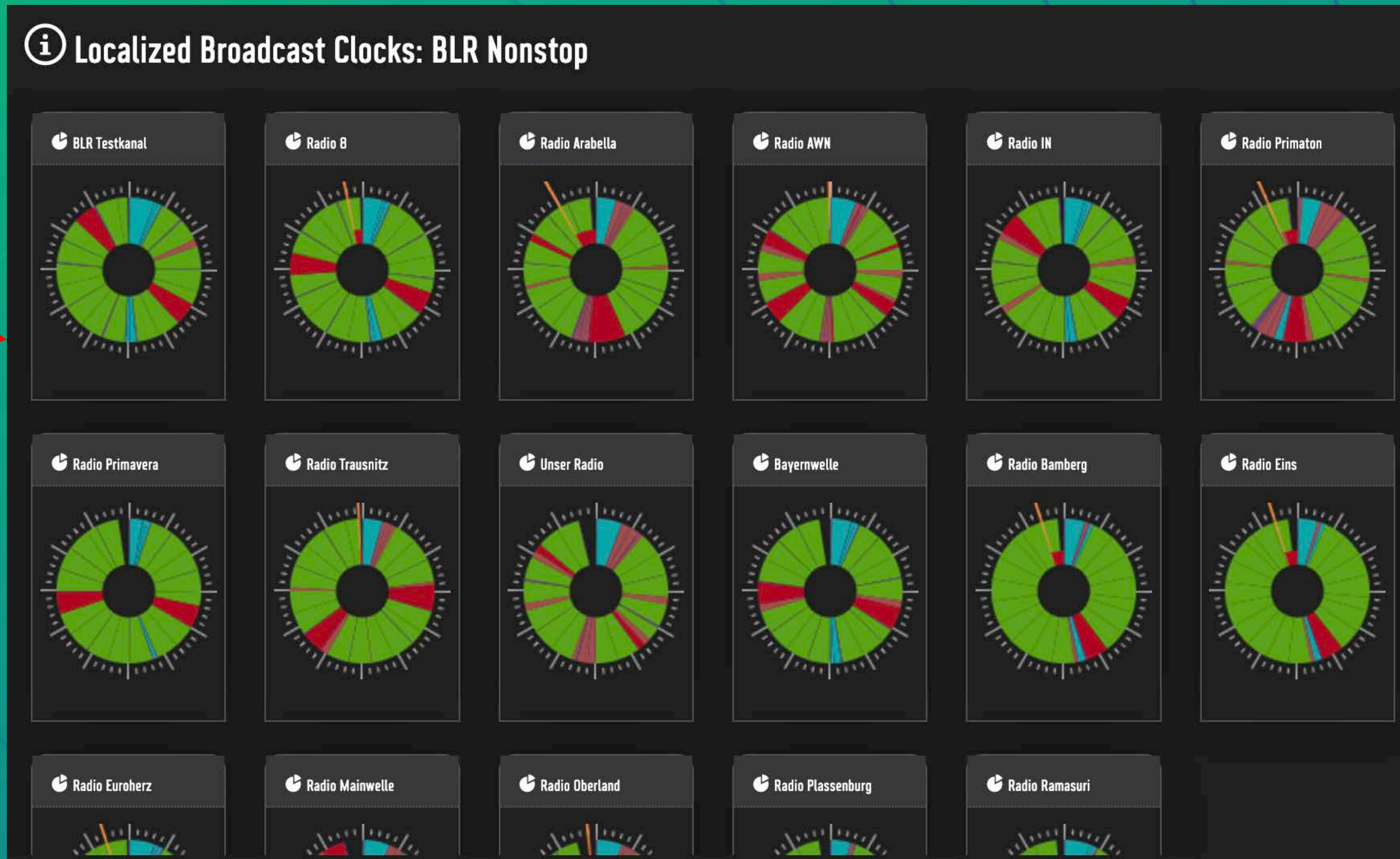
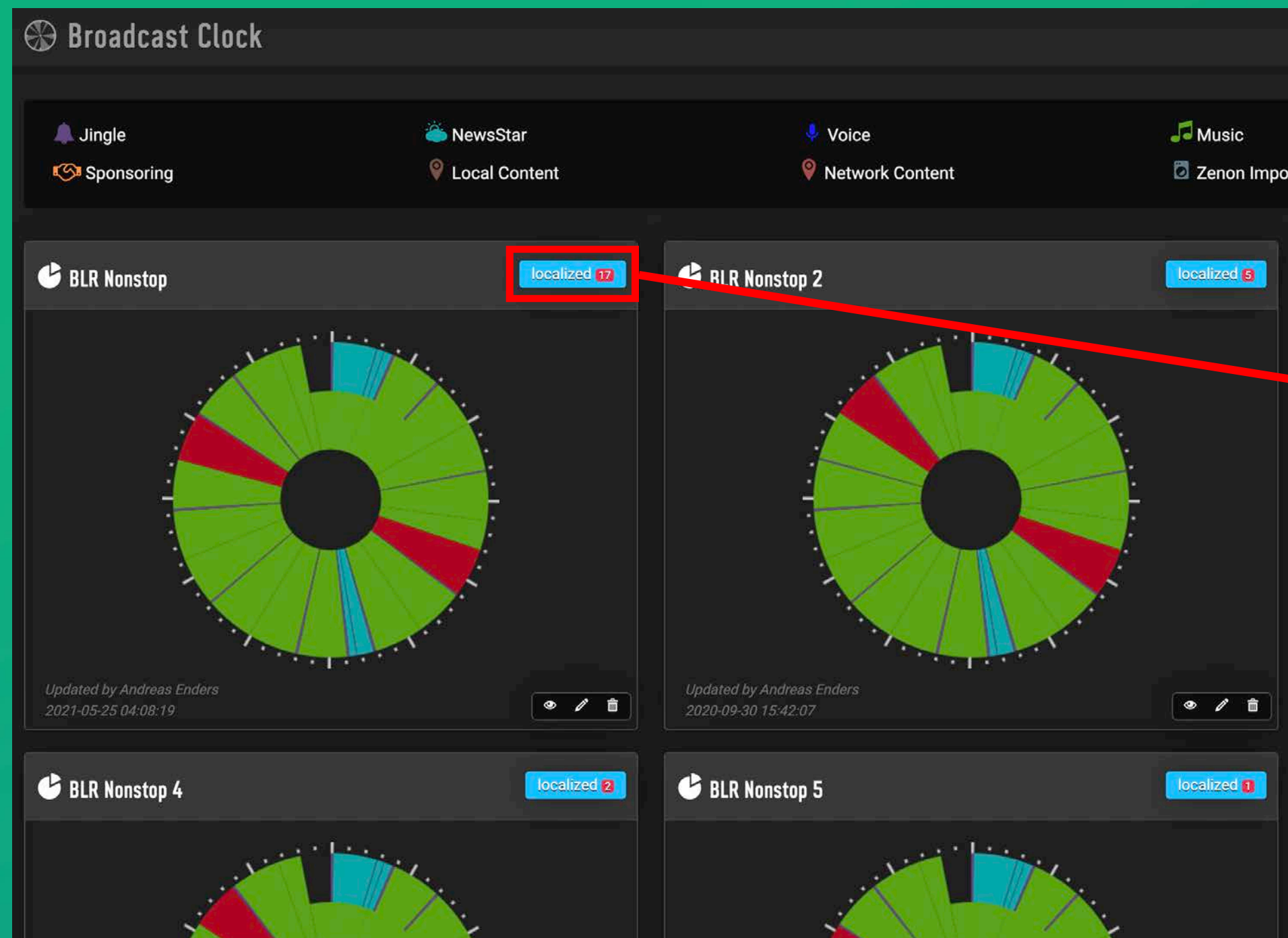


Drag & Drop Functionality to Build Clocks



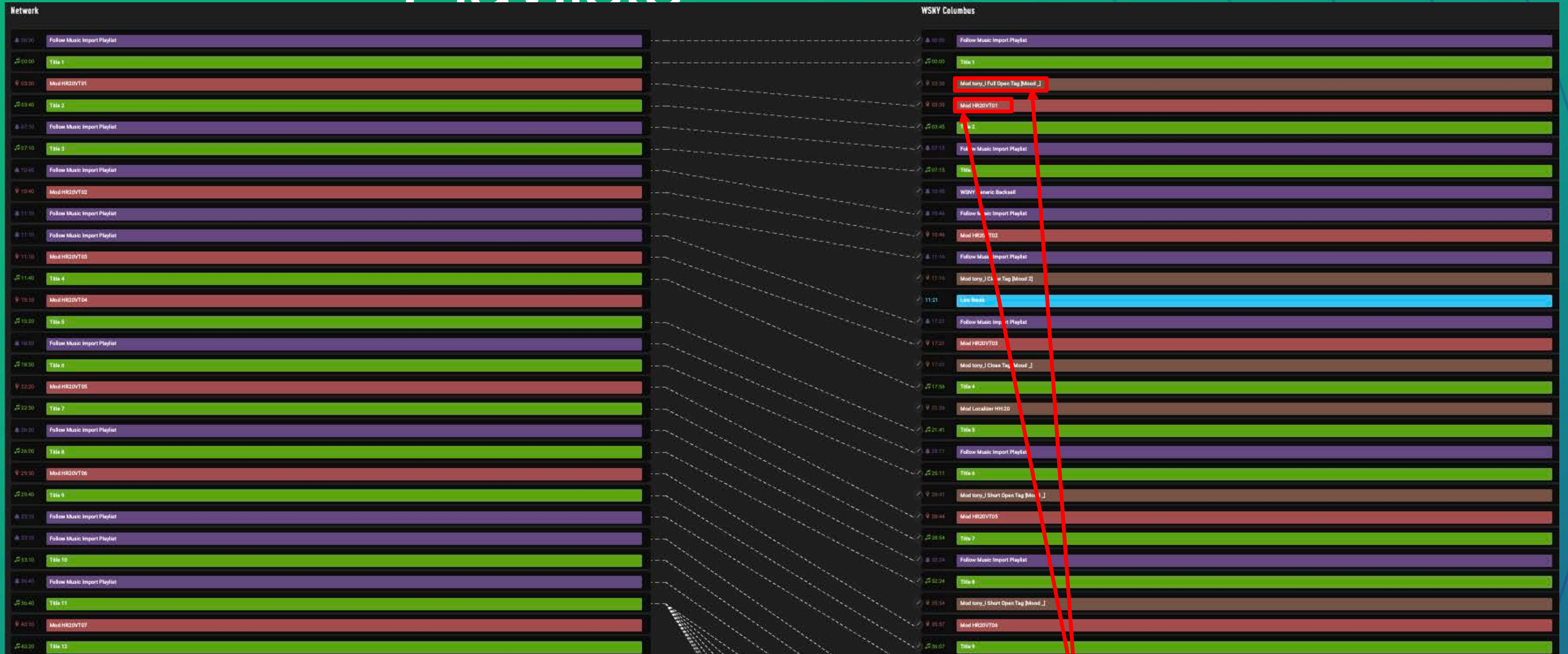
Clocks can be as simple or complex as you'd like

10 Radio.Cloud Highlights



Networking and Localization of Clocks

Network vs Local Playlists



Network & rule-based local playlists



10 Radio.Cloud Highlights

Local Playlist

Search...

Create Day Playlist again

Pending Playlists

Auto Scroll

Saturday 2022-07-30

Jump to hour

Start Time

Artist

Title

Transition

19

2022-07-30

Version 20

Compare

Music: 3321s (97%)

Other: 115s (3%)

79°F

Render

Generate

SBE

Created At: 2022-07-30 19:35:14

▶▶	19:00:43	00:17	Follow Music Import Playlist	T102.3 TNR LEGAL ID :00	
▶▶	19:01:00	03:56	Quad City DJs	C'mon N' Ride It (The Train)	L-ID: 1838 A-ID:256 Mood: 3
▶▶	19:04:57	00:04	tony_I	Full Open Tag [Mood 3] WYET Version A	
▶▶	19:05:01	00:06	PA1 import (prod 07/26/22 15:10:34)	VTrack for 07/30/22 19:04 HR19VT01 RAMP	
▶▶	19:05:07	03:34	Bon Jovi	Livin' On A Prayer	L-ID: 6265 A-ID:413 Mood: 3
▶▶	19:08:41	00:02	Follow Music Import Playlist	T1023 SHOTGUN JINGLE E :00	
▶▶	19:08:44	02:41	Matthew Wilder	Break My Stride	L-ID: 6534 A-ID:510 Mood: 2
▶▶	19:11:26	00:02	tony_I	Generic Backsell WYET Version 01	
▶▶	19:11:28	00:24	PA1 import (prod 07/26/22 15:05:14)	VTrack for 07/30/22 19:10 HR19VT02 RAMP	
▶▶	19:11:53	00:01	Follow Music Import Playlist	THROWBACK Signature Sound :00	
▶▶	19:11:55	00:02	tony_I	Close Tag [Mood 2] WYET Version A	
▶▶	19:11:57	00:24	Live Break 00:00 +24	Commercial Break - AudioVault Automation	
▶▶	19:12:21	00:02	Follow Music Import Playlist	3100WYET	

Transcription

The all new throwback 102.3 the greatest hits of the 80s and 90s.

Close

Transcription

Throwback Nation radio class of 96 reunion. Just getting started and it is time to win the Sands 2022. This is an amazing lineup. Cluding Loverboy Culture Club Belinda Carlisle all going to be in Cancun Planet Hollywood Resort coming up in October. You want to be there Text the word palm to 877-909-1989. That's Palm PA LM within the next 24 hours. Message and data rates apply and good luck.

Close

Transcription

It's another class reunion weekend and welcome I'm Tony Lorino as Throwback Nation Radio is just getting started for the class of 1996. Tonight there are so many different parts of this song that are so sing along table but the one that stands out for me. A tip to tip for me, he might give it away. OK, let's refresh your memory for the class of 1996 and one of the best from sublime coming next.

Close

Amazon Transcribe on Playlist



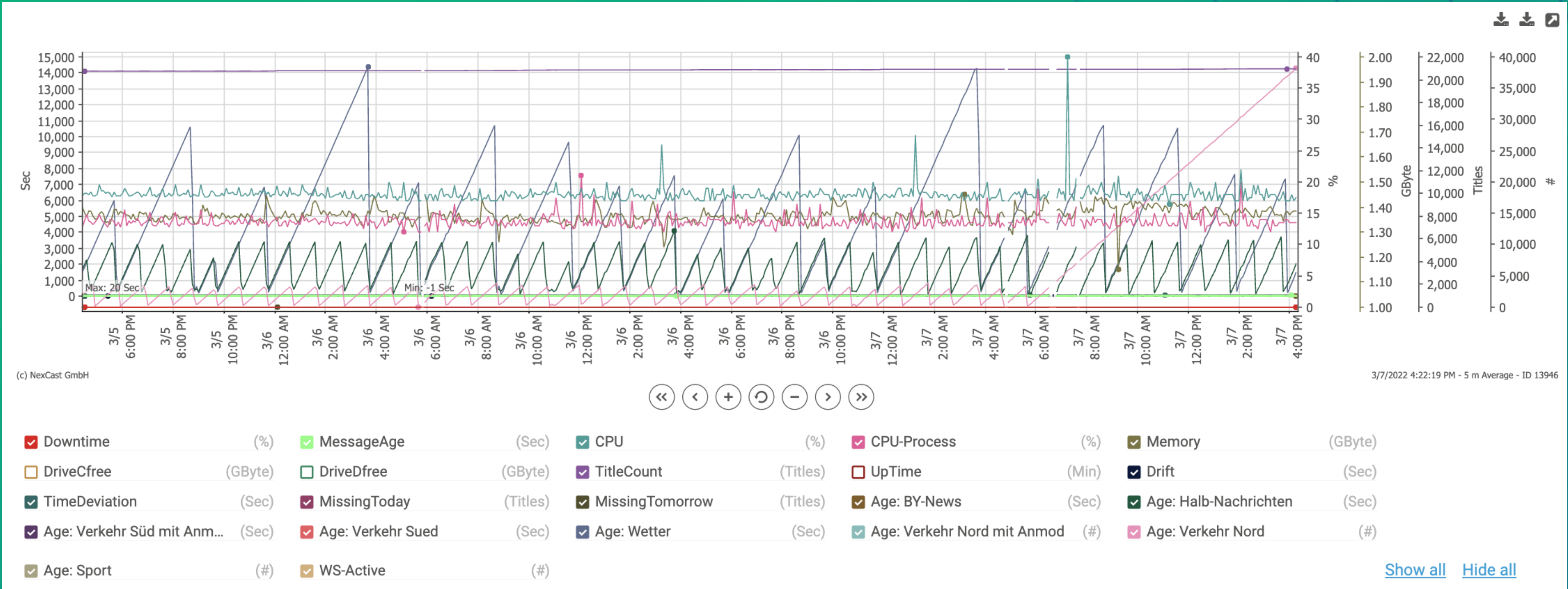
10 Radio.Cloud Highlights

Dashboard | 28-06-2022

Location	Playout Status	Metadata Now Playing	Ad Playlists days ahead	Spots		Playlists				Missing Audio Playout		Missing Audio on Playlist		Playlist Drift	Last Update
				Today	Tomorrow	Today	Tomorrow	Day After Tomorrow	+3 Days	Today	Tomorrow	Today	Tomorrow		
Network: BLR Mantel															
★ANS	✓ MAIN	PLAYER 1: ► MUC-00130091.mp2	2	314	358	OK	VE	VE	VE	0	0	0	0	1	28-06-2022 20:42:18
★ASC	✓ MAIN	PLAYER 1: ► MUC-00129440.mp2	2	537	509	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:12
★BAM	✓ MAIN	PLAYER 1: ► MUC-00129440.mp2	2	295	310	OK	OK	OK	VE	0	0	0	0	2	28-06-2022 20:42:16
★BAY	✓ MAIN	PLAYER 2: ► BAY-00002822.mp2	2	266	262	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:12
★COB	✓ MAIN	PLAYER 1: ► MUC-00129440.mp2	2	320	330	OK	OK	OK	VE	0	0	0	0	1	28-06-2022 20:42:40
★FRE	✓ MAIN	PLAYER 1: ► MUC-00129440.mp2	2	284	281	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:40
★GAP	✓ MAIN	PLAYER 2: ► MUC-00129440.mp2	2	363	310	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:31
★HOF	✓ MAIN	PLAYER 1: ► MUC-00129440.mp2	2	215	218	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:09
★ING	✓ MAIN	PLAYER 1: ► MUC-00130091.mp2	2	323	315	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:09
★KUL	✓ MAIN	PLAYER 1: ► BAY-00002822.mp2	2	234	227	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:29
★LAN	✓ MAIN	PLAYER 3: ► MUC-00130091.mp2	2	217	241	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:40
★MUP	✓ MAIN	PLAYER 3: ► MUC-00130091.mp2	2	398	439	OK	VE	VE	VE	0	0	0	0	-2	28-06-2022 20:42:27
★NOT	✓ MAIN	PLAYER 3: ► MUC-00130091.mp2	2	26	25	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:39
★SCH	✓ MAIN	PLAYER 2: ► MUC-00129440.mp2	2	340	299	OK	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:24
★STR	✓ MAIN	PLAYER 3: ► MUC-00130091.mp2	2	287	271	OK	VE	VE	VE	0	0	0	0	1	28-06-2022 20:42:22
★WEI	✓ MAIN	PLAYER 3: ► wei-00000955.mp2	2	417	424	LCM	VE	VE	VE	0	0	0	0	0	28-06-2022 20:42:27

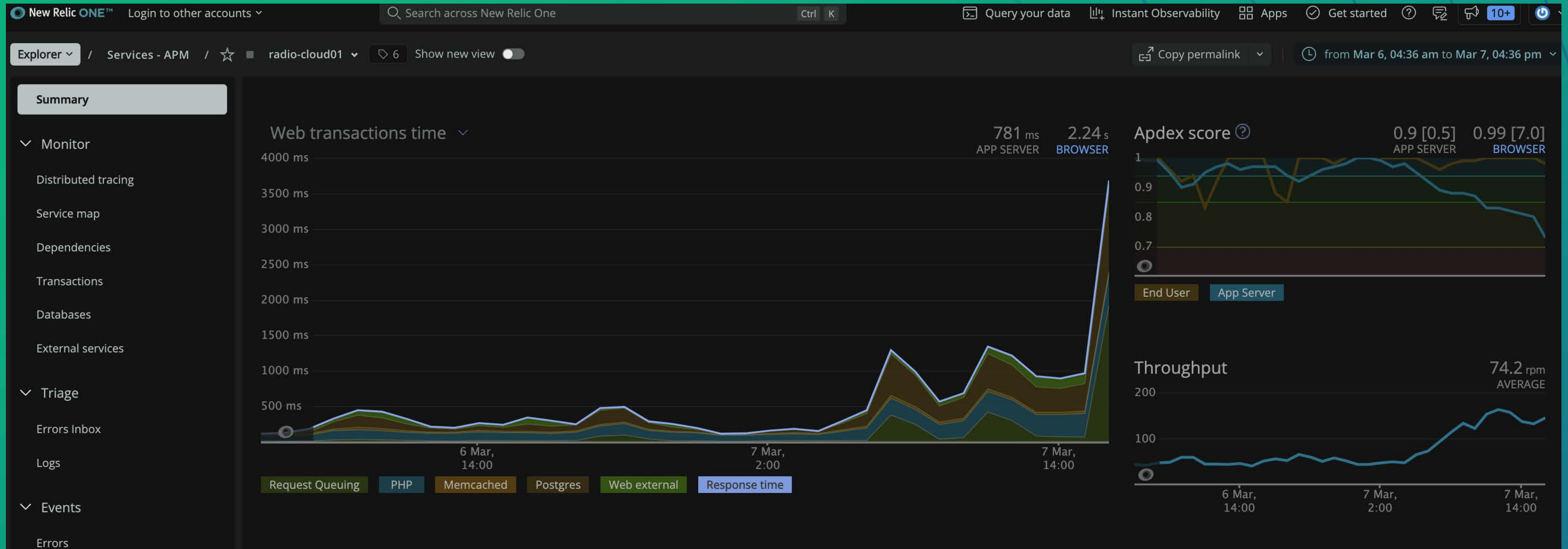
Dashboard for Monitoring

Pro-Active Monitoring



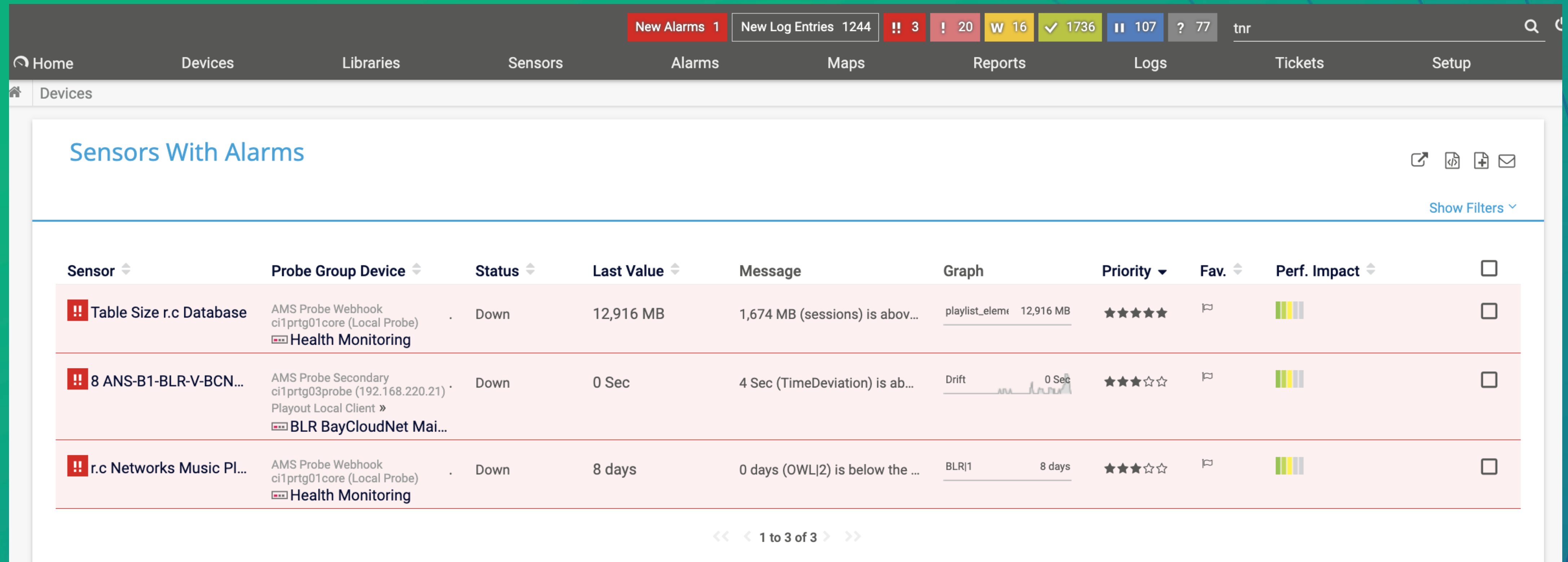
PRTG Monitoring System pulls new data every 30 seconds for metrics like CPU, Memory, Storage, Temperature, Age of Content, & Downtime

Monitoring



Multiple monitoring systems (New Relic in New York & PRTG in Germany), plus a Geo Load Balancer to distribute requests

Monitoring



Nearly 2000 sensors monitor entire operation from cloud infrastructure to Edge Gateways on-site

10 Radio.Cloud Highlights

07

2022-06-28

Version 12

Compare

Music: 2795s (92%) Other: 244s (8%)

54°F

2022-06-28 07:59:05

Render

	07:01:57	00:17	Follow Music Import Playlist	T1023 5-8a TOH :00	
	07:02:14	03:33	Blind Melon	RAMP: 20s 90ies 148	No Rain
	07:05:48	00:00	VTrack	06/28/22 07:10 RAMP	
<div>The all new throwback 102.3 you know we have endured some crazy weather in Michiana and now we are reaping the wonderful benefits of all of that 83 and sunny today. Did I say the word pleasant</div>					
	07:05:48	03:16	Men At Work	RAMP: 17s	Who Can It Be Now?
	07:09:05	00:03	Follow Music Import Playlist	T1023 Listener Test 18 :09	
	07:09:08	04:30	Bryan Adams	RAMP: 21s 80ies 96	Cuts Like A Knife
	07:13:39	00:02	Follow Music Import Playlist	THROWBACK NEWS SOUNDER :00	
	07:13:42	01:16	News	06/28/22 06.00 - 08.59	
<div>Good morning Bob Montgomery on the WSBT 22 news room 46 people are dead. Another 16 hospitalized in what's being called one of the deadliest cases of migrant smuggling ever on the southern border, a city worker in San Antonio, TX, heard cries of help coming from the back of a semis on air conditioned trailer on a nearly 100 degree day yesterday, found people inside. Three peo</div>					
	07:14:58	00:04	Time Check	07:15 - paul_cook	
	07:15:03	00:01	Follow Music Import Playlist	THROWBACK Signature Sound :00	
	07:15:04	00:01	Follow Music Import Playlist	T1023 102.3	
	07:15:06	04:19	Live Break 04:00 +19	Commercial Break - AudioVault Automation	
	07:19:25	00:04	Follow Music Import Playlist	THROWBACK WEATHER JINGLE :00	
	07:19:29	00:20	Weather	06/28/22 06.00 - 08.59	
<div>Mostly sunny skies. Today we do get a little bit warmer. This afternoon. We'll top out right around 84 degrees. Partly cloudy to clear skies overnight. Tonight we'll drop down to 62 and then the heat really starts to build as we head into tomorrow afternoon. Highs partly sunny and a high of 87. I'm WSBT 22, meteorologist Kerry Peugeot.</div>					

Wikipedia

Bryan Guy Adams FRPS (born November 5, 1959) is a Canadian guitarist, singer, songwriter, composer, and photographer. Sources state Adams has sold either more than 75 million or more than 100 million records and singles worldwide, making him one of the best-selling music artists of all time. Adams was the most played artist on Canadian radio in the 2010s and has had 25 top-15 singles in Canada and a dozen or more in each of the US, UK, and Australia.

Adams joined his first band at age 15, and at age 20 his eponymous debut album was released. He rose to fame in North America with the 1983 top ten album *Cuts Like a Knife*, featuring its title track and the ballad "Straight From the Heart", his first US top ten hit. His 1984 Canadian and US number one album, *Reckless*, made him a global star with tracks like "Run to You" and "Summer of '69", both top ten hits in the US and Canada, and the power ballad "Heaven", a US number one hit. His 1987 album *Into the Fire*, with its US and Canadian top ten song, "Heat of the Night", rose to number two in Canada and the top ten in the US and several other countries.

In 1991, Adams released "Everything I Do" / "Do It for You", which went to number one in at least 19 countries, including for 16 and 18 straight weeks in the UK, and Europe overall, both records. It is one of the best-selling singles of all time, having sold more than 15 million copies worldwide. The song was included on Adams' *Waking Up the Neighbours* (1991), a worldwide number one album that sold 16 million copies, including being certified diamond in Canada. Another major hit off the album was the Canadian number one and US number two hit "Can't Stop This Thing We Started", which also went top ten in several other countries. Beginning in 1993, Adams' hits were mostly ballads, including the worldwide number one or two hits "Please Forgive Me" (1993), "All for Love" (1993), and "Have You Ever Really Loved a Woman?" (1995), the latter two topping the U.S. *Billboard* Hot 100. Adams' 1993 greatest hits compilation album, *So Far So Good*, topped the charts in numerous countries, was certified 5X platinum in the US and 11X platinum in Australia, selling 13 million copies worldwide.

In 1996, Adams' *18 til I Die* was a top five album in many countries, but only reached number 31 in the US. He did duets with Barbra Streisand ("I Finally Found Someone" (1996), his last US top ten hit) and Melanie C ("When You're Gone" (1998), an international top five hit). In the 1990s, Adams had six European Radio Airplay number one songs for 32 weeks, the fourth and third most, respectively, and three number one songs on the European Sales Chart for 29 weeks total, the most weeks of any artist. Since 1999, Adams released eight albums, three reaching number one in Canada, and the last three reaching the top three in the UK, Germany and elsewhere in Europe.

In 2008, Adams was ranked 38th on the list of all-time top artists on the *Billboard* Hot 100. Adams has won 20 Juno Awards and a Grammy Award for Best Song Written for a Motion Picture or Television amongst 15 Grammy nominations, and has been nominated for five Golden Globe Awards and three Academy Awards for his songwriting for films. Adams has been inducted into the Hollywood Walk of Fame, Canada's Walk of Fame, the Canadian Broadcast Hall of Fame, the Canadian Music Hall of Fame and the Canadian Songwriters Hall of Fame. On May 1, 2010, Adams received the Governor General's Performing Arts Award for his 30 years of contributions to the arts.

Continue reading at Wikipedia...

Twitter

Tweets by @bryanadams

Bryan Adams
@bryanadams

Tickets for the show at the @ENMAXCentre in Lethbridge, AB Nov. 8, are on sale now! Get yours now! bit.ly/3x2J5nq #SoHappyItHurts #concerts

Embed View on Twitter

Instagram

Instagram

Facebook

Bryan Adams
5,269,381 followers

BRYAN ADAMS
SO HAPPY IT HURTS
OUT NOW

WIN 2 TICKETS TO SEE BRYAN ADAMS ON HIS SO HAPPY IT HURTS TOUR IN ONE OF THE FOLLOWING CITIES:

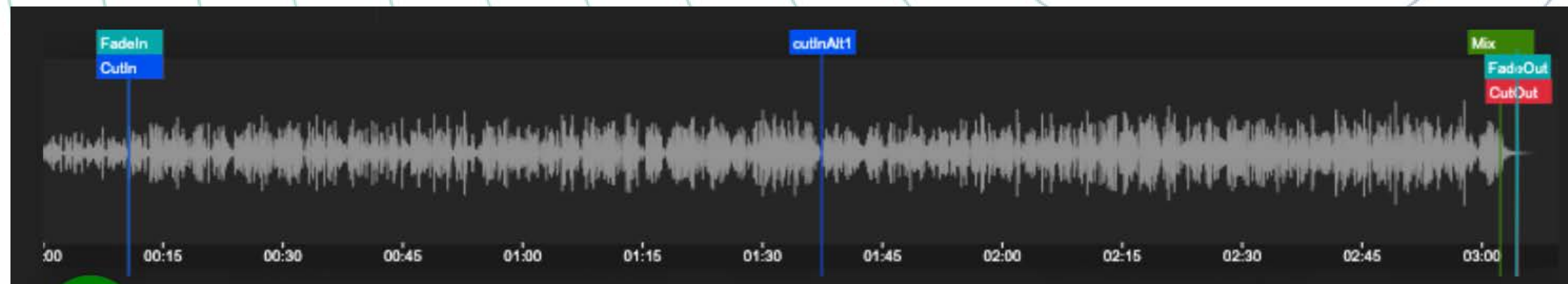
- SEPT. 12, 2022 HELL CENTRE, MONTREAL, QC
- OCT. 1, 2022 CANADIAN TIRE CENTRE, OTTAWA, ON
- OCT. 6, 2022 LEON'S CENTRE, WINSTON, ON
- OCT. 19, 2022 MIDWINTER GARDENS, LONDON, ON
- OCT. 19, 2022 SHOREWAY ARENA, SUDBURY, ON
- NOV. 2, 2022 CANADA LIFE CENTRE, WINNIPEG, MB
- NOV. 4, 2022 BRANDT CENTRE, REGINA, SK
- NOV. 6, 2022 SADDLES CENTRE, SASKATOON, SK
- NOV. 8, 2022 ROGERS PLACE, EDMONTON, AB
- NOV. 10, 2022 SCOTIABANK SADDLEDOME, CALGARY, AB
- NOV. 12, 2022 ROGERS ARENA, VANCOUVER, BC

Social Media API on Playlist

Microservice S

Radio.Cloud runs its own Microservices

- Audio Transcoding: Broadcast vs Preview files
- Audio Analyzing: Cut In, Cut Out, EOM, Normalizing
- Playlist Generator Engine
- WebSocket Signaling Server
- Live Studio: Media Server or Cloud Playout



The image shows a collage of social media content related to Dua Lipa. At the top left is a Wikipedia snippet about her, mentioning her birth date (1995-08-22) and her debut album 'Dua Lipa' (2017). To the right is a Facebook profile header for 'Dua Lipa' with 17,856,422 followers and a banner for her album 'Future Nostalgia: The Moonlight Edition'. Below the Facebook header is a tweet from @DUALIPA replying to @DUALIPA, featuring a video of Dua Lipa performing. To the right of the tweet is an Instagram post from 'dualipa' with 80.2M followers, showing a video of Dua Lipa performing. The bottom right corner shows a snippet of a tweet from 'Michael'.

Success Stories

Throwback 102.3 (WYET-FM/South Bend, IN)

- Increase in listenership & local sales

BLR in Germany

- Save money on satellite, share content and localized nearly 20 channels across Bavaria
- 100+ affiliates in USA within a year

Summary

The first 100% cloud-native content management, production and automated platform for radio

Globally reliable, flexible, scalable & secure

Leveraging the power of AWS for cloud computing

2022 NAB Show



Product of the Year

Questions



jim@radio.cloud
shawn@radio.cloud
844.444.0000