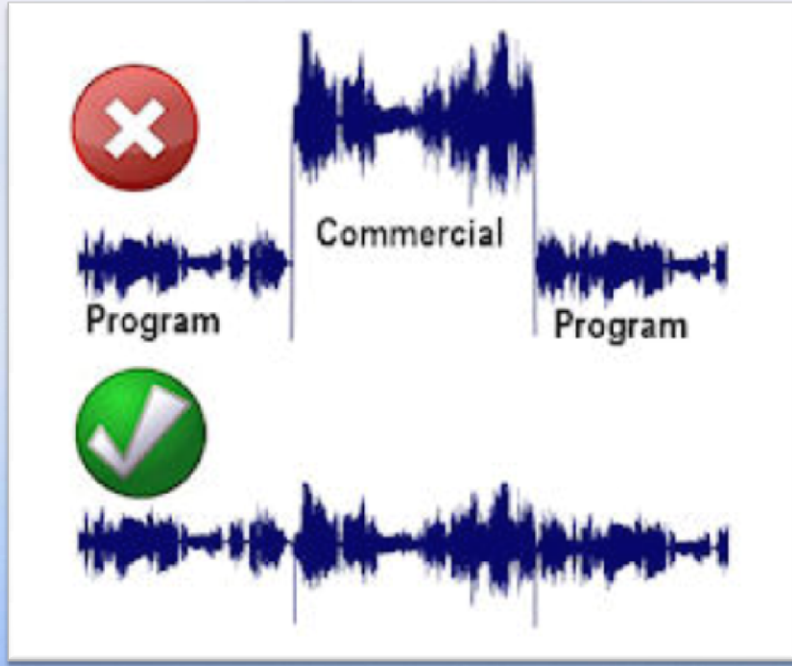




&

**A**udioPr **ble**m**e**n

[valentijn.siebrands@rtl.nl](mailto:valentijn.siebrands@rtl.nl)



# Achterkant RTL XL



↓ #1 **LUX1 - RTL 4 HD LXL**

HD-SDI port  
1



Utilization

CPU: - / 51.4 %  
Net: 10.615mbps

VIDEO RATE, FPS	AUDIO RATE,
593.262mbps, 25.00 fps	1.465mbps, 40

VIDEO RATE, FPS	AUDIO RATE
3.987mbps, 25.00 fps	124kbps

2.371mbps, 25.00 fps	125kbps
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1.402mbps, 25.00 fps	124kbps
----------------------	---------

849kbps, 25.00 fps	124kbps
--------------------	---------

502kbps, 25.00 fps	125kbps
--------------------	---------

296kbps, 25.00 fps	124kbps
--------------------	---------

175kbps, 25.00 fps	124kbps
--------------------	---------

102kbps, 25.00 fps	125kbps
--------------------	---------



2014-09-11T09:29:18:480



2014-09-11T09:29:18:520



Actions: [Archive](#) [Stitch or View Event](#)

P6: Nieuwe Buren - Zondag 21h00 Pk6 (00:00:25)

Times: 2014-09-11T09:28:53.520 - 2014-09-11T09:29:18.520 Meta: {tapeid: N4098079,episodekey: , abstractkey: , pobj\_id: 87355769 }

Actions: [Archive](#) [Stitch or View Event](#)

Goede Tijden, Slechte Tijden "Afllevering 4973" (00:09:44.5200000)

Times: 2014-09-11T09:29:18.520 - 2014-09-11T09:39:03.040 Meta: {tapeid: 214010H1,episodekey: 279805, abstractkey: 10821, pobj\_id: 83135558 }

Actions: [Archive](#) [Stitch or View Event](#) [Stitch by EpisodeKey](#)

```

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```

rtvzoo

Zoek een programma...

Home Vooruitkijken Gemist Series Films



Goede Tijden, Slechte Tijden

Afl. 4973

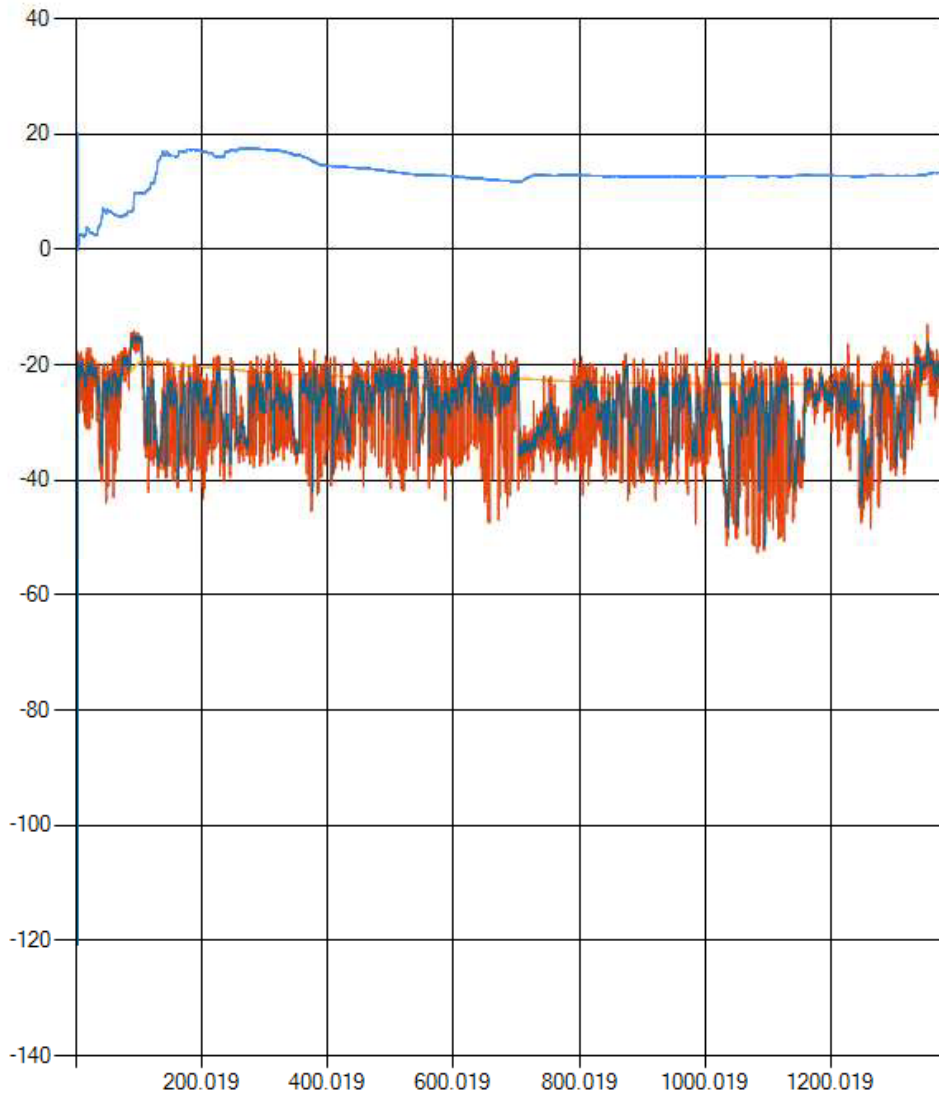
Nina dwingt bij Vincent af dat ze het over hun toekomst samen hebben. Bing gaat de strijd aan met Tim; beiden willen Boks exploiteren. Jef ziet dat het niet goed gaat met Maxime. Aysen loopt Thijs tegen het sportieve lijf en ziet avondje lol met hem wel zitten.

```

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<c d="100000000" />
<c d="100000000" />
<c d="100000000" />
<c d="100000000" />
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```

Bitrate	110000 Mp4	186000 Mp4	313000 Mp4	527000 Mp4	890000 Mp4	1500000 Mp4	2522000 Mp4	4250000 Mp4
Duration(ISMC)	12494053335	12494053335	12494053335	12494053335	12494053335	12494053335	12494053335	12494053335
VideoSum(c)	12493600001	12493600001	12493600001	12493600001	12493600001	12493600001	12493600001	12493600001
AudioSum(c)	12494053335	12494053335	12494053335	12494053335	12494053335	12494053335	12494053335	12494053335
audio (distinct t)	0	0	0	0	0	0	0	0
video (distinct t)	346667	346667	346667	346667	346667	346667	346667	346667
SMIL TIME	2014-09-11T11:30:55.257	2014-09-11T11:30:55.273	2014-09-11T11:30:55.273	2014-09-11T11:30:55.273	2014-09-11T11:30:55.273	2014-09-11T11:30:55.273	2014-09-11T11:30:55.273	2014-09-11T11:30:55.273
ISMV Times	2014-09-11T11:31:00.973	2014-09-11T11:31:02.618	2014-09-11T11:31:04.122	2014-09-11T11:31:05.463	2014-09-11T11:31:07.868	2014-09-11T11:31:05.666	2014-09-11T11:31:19.985	2014-09-11T11:31:17.020
diff: smil-ismv	00:00:05.7152207	00:00:07.3444748	00:00:08.8486944	00:00:10.1894248	00:00:12.5945532	00:00:10.3925517	00:00:24.7123817	00:00:21.7469382
v-length:	00:20:49.4053335	00:20:49.4053335	00:20:49.4053335	00:20:49.4053335	00:20:49.4053335	00:20:49.4053335	00:20:49.4053335	00:20:49.4053335
speed:	x Realtime 218	x Realtime 170	x Realtime 141	x Realtime 122	x Realtime 99	x Realtime 120	x Realtime 50	x Realtime 57



**Short-term loudness** — Series4  
**Momentary loudness** — Series3  
**Integrated loudness** — Series2  
**Loudness Range** — Series1

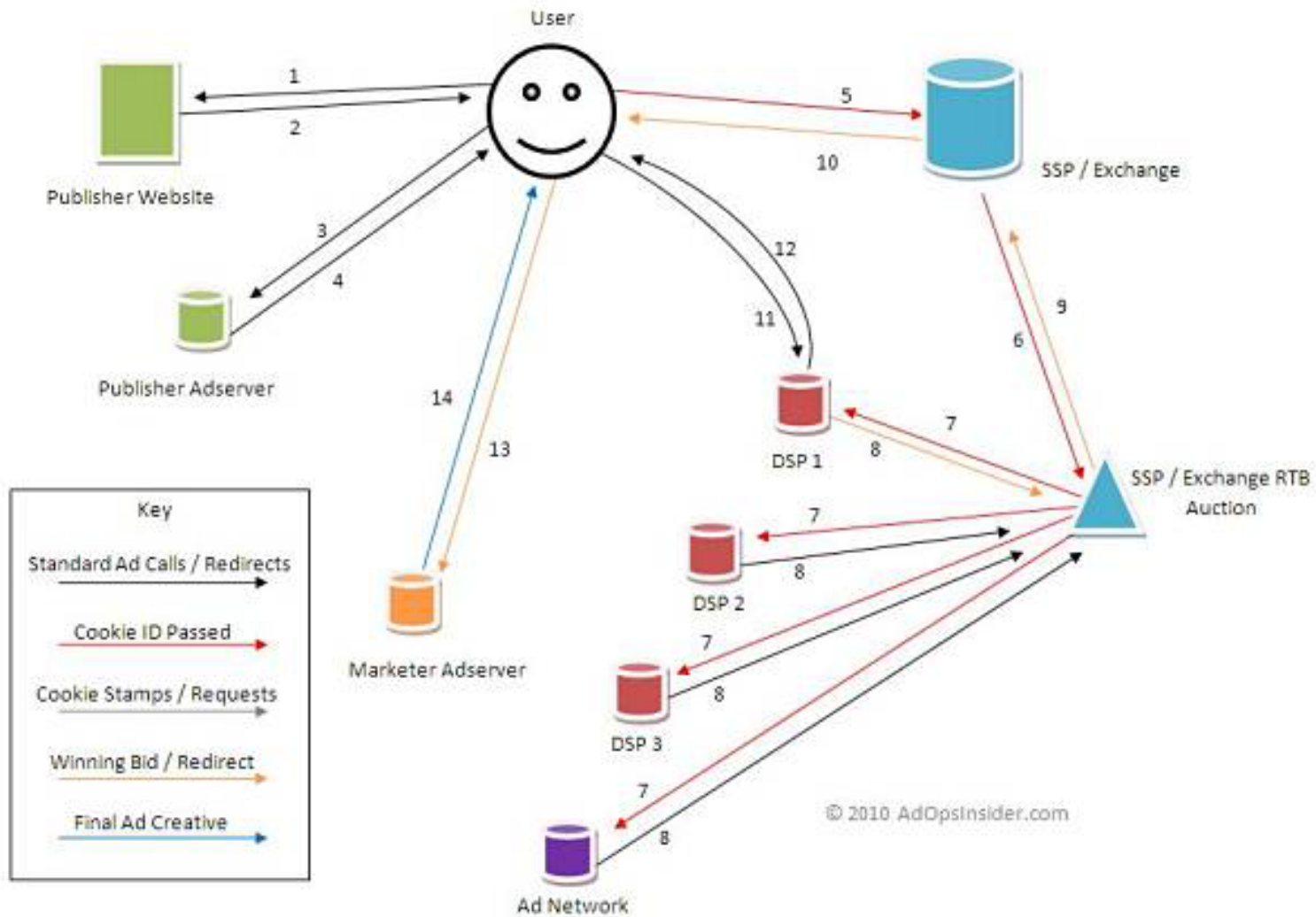


# Adverteren op RTL XL

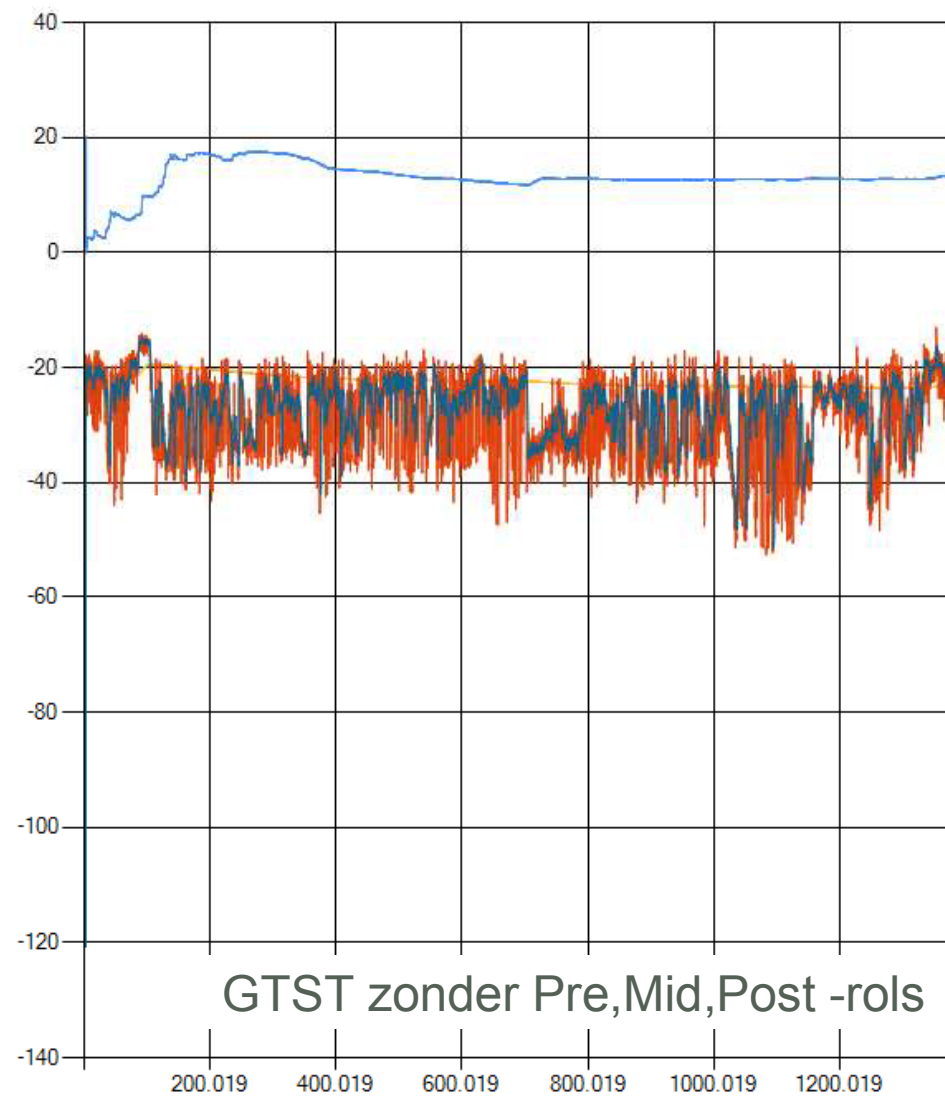
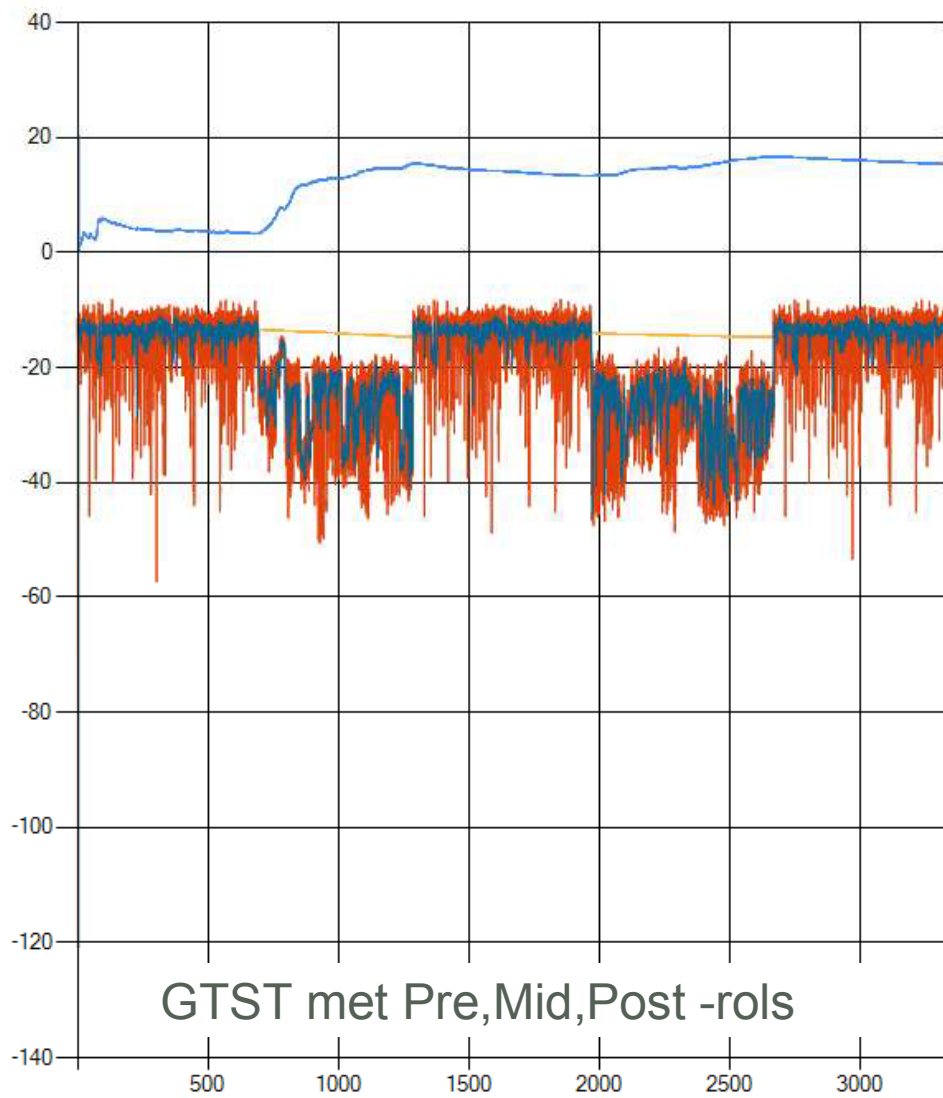


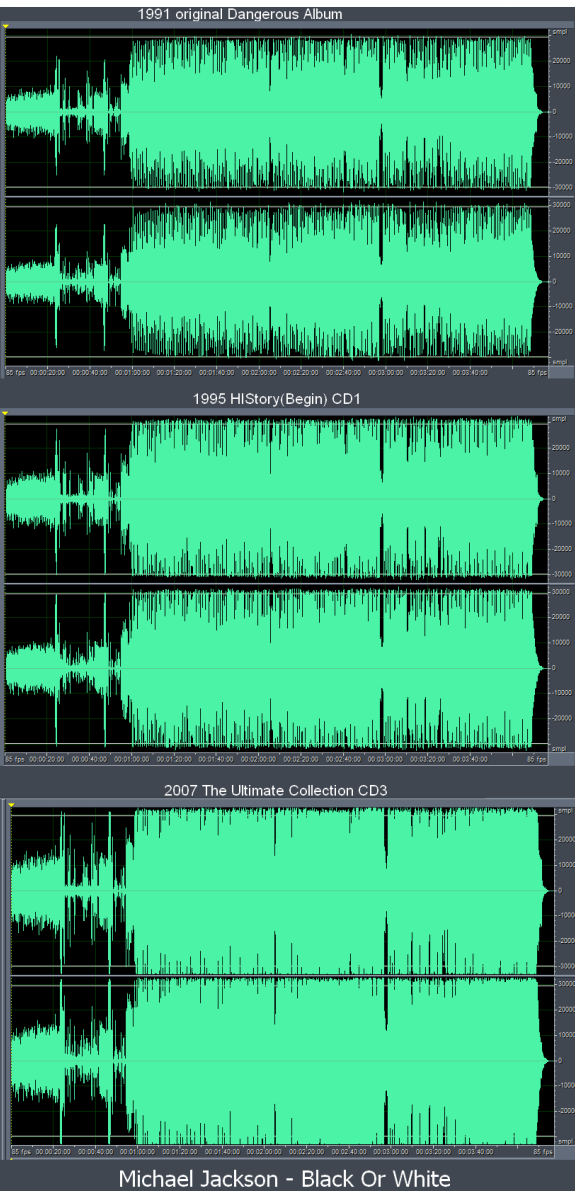


# How DSPs, SSPs, and Ad Exchanges Work



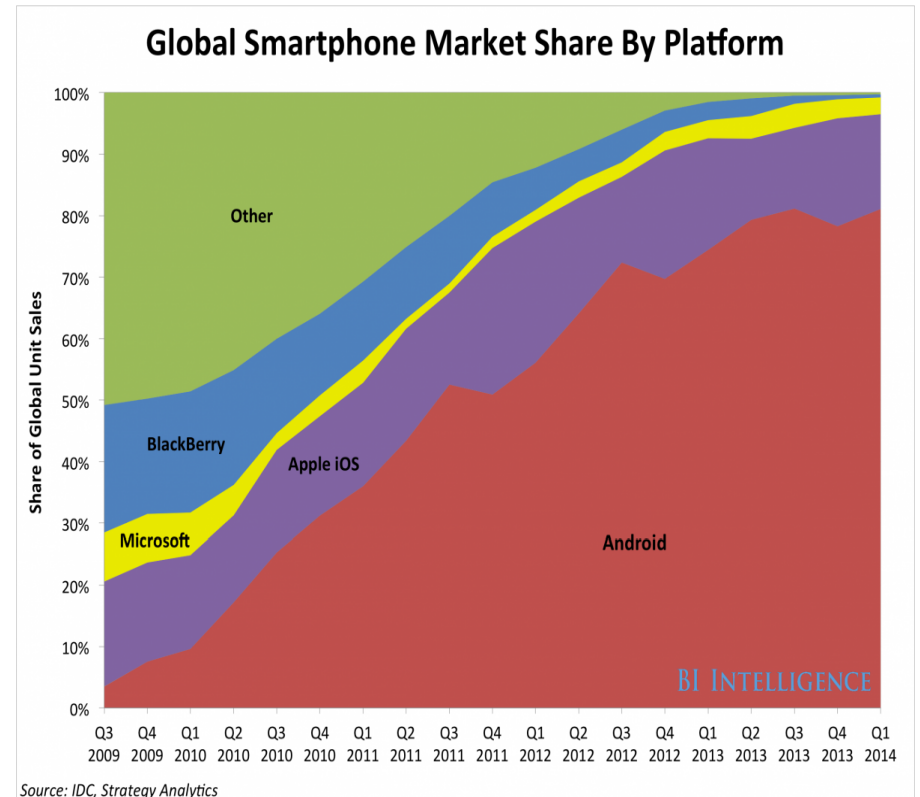
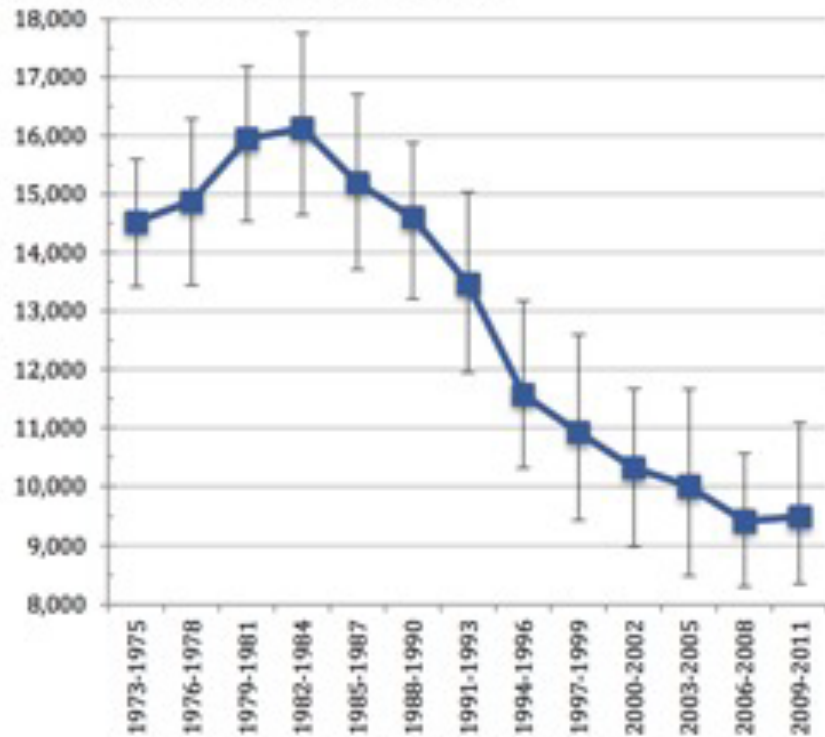






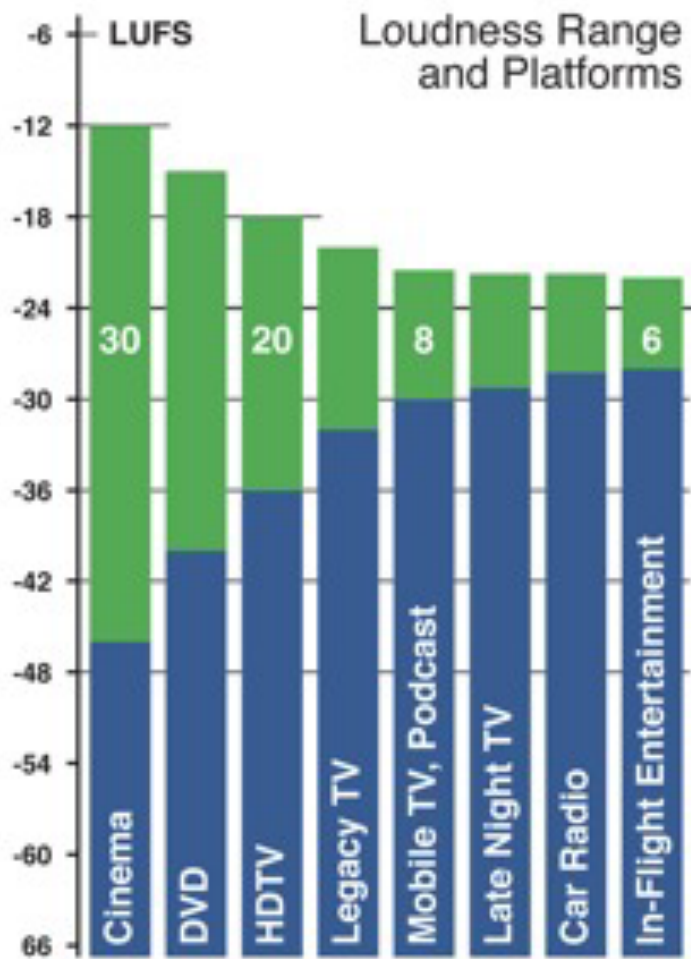
# Versterking & dynamisch bereik

True-peak to Loudness Ratio, PLR [dB]



- **Safe exposure levels shall be the "default" settings on products.** The mandate does not prescribe specific technical solutions in order not to stifle the capacity of industry to innovate. Instead it requires manufactures to provide that the default settings for normal usage meet safety requirements.

The mandate makes it clear that safe use depends on exposure time and volume levels. At 80 dB(A), exposure should be limited to 40 hours/week. At 89 dB(A) exposure should not exceed 5 hours/week.



Audio Playback Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV

User-configurable maximum volume limit

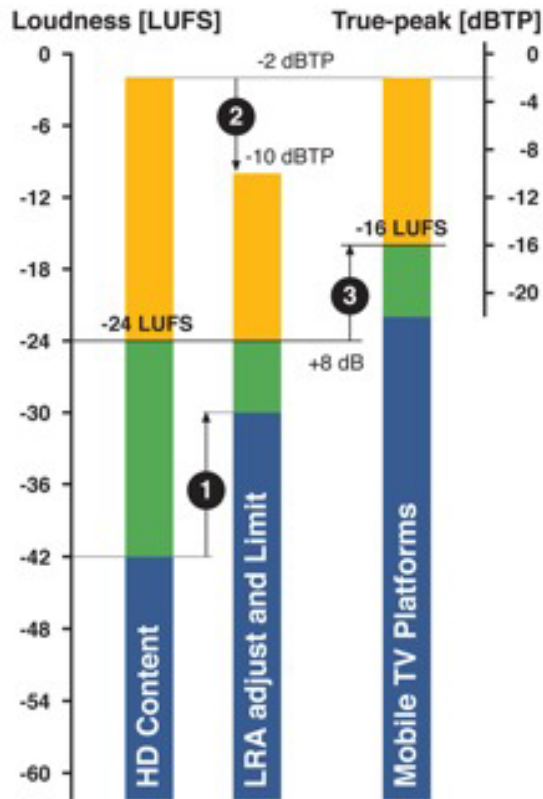
## Audio for Mobile TV, iPad and iPod

Thomas Lund

.....a study on the SPL from various iPods and Mobile TVs has been presented, showing a spread among vendors of around 11 dB. Different headphones taken into account, the variation is over 20 dB.....

.....Program Loudness and Loudness Range are important parameters when preparing programs for Mobile TV while peak level is less important.....”

.....Program Loudness and Loudness Range are important parameters when preparing programs for Mobile TV while peak level is less important.....but, we shouldn't do it on the client



“Adding it all up, ideal and easy cross-platform encoding is shown in Fig 11: Use BS.1770-3 to normalize content to -24 LUFS. Follow the numbers on the illustration to -  
1) Bring up low level sounds that would drown on Mobile.  
2) Limit peaks to -10 dBTP.  
3) Add a static gain offset of, for instance, +8 dB.”





**ein<sub>d</sub>e**