

YANA1123

Y A N A
You Are Not Alone
(the Prague Edition)

11.5.2023

Sponsored by NBCUniversal



Many faces here today were at YANA0318

- Welcome back, it's great to see you again

Many faces are new here at YANA1123

- Welcome to the conversation

Looking back to YANA0318....



BBC | Research & Development

YANA0318
You Are Not Alone
London 3.16.2018

Hosted By

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NBCUniversal

Organizers:
Leslie Daigle
Glenn Deen

Looking back to YANA0318....

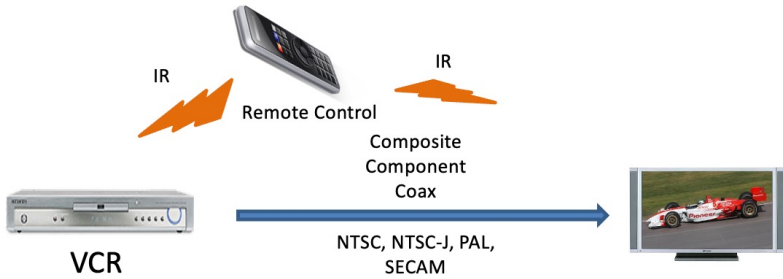
YANA is not your traditional death by powerpoint event.

In the spirit of the great hallway conversations that happen at other events, the YANA workshop format is structured to encourage open interaction, sharing, and discussion. Like those great hallway conversations there are no topic bounds to stay within, everyone attending YANA is encouraged to go where the conversation takes them.

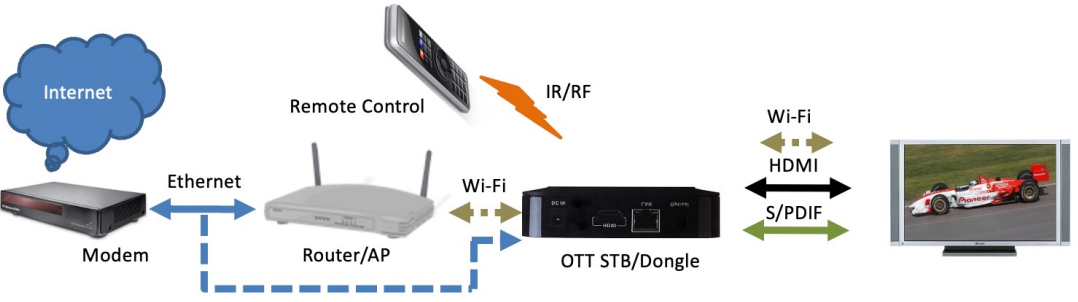
Looking back to YANA0318....

Content Delivery is getting much more Complex

Television Circa 1994



OTT Video Circa TODAY



Looking back to YANA0318....

A Few of Standards Circa Today

<p style="text-align: center;">Connectivity</p> <ul style="list-style-type: none"> •HDMI: CEA 861-F <ul style="list-style-type: none"> •CEC (Consumer Electronics Control) •ARC (Audio Return Channel) •HEC (HDMI Ethernet Channel) •HDCP: <u>High Definition</u> Content Protection (over HDMI) •Wi-Fi: IEEE 802.11a/b/g/n/e... •Ethernet: IEEE 802.3 •S/PIDF (Optical Port): IEC 60958 type II •Remote Control <ul style="list-style-type: none"> •IR: RC-5/6 (Philips); NEC; proprietary •RF: RF4CE (ZigBee), Bluetooth LE; low power Wi-Fi 	<p style="text-align: center;">Network & Transport</p> <ul style="list-style-type: none"> •IPv4/IPv6 •IP Multicast •TCP •UDP •HTTP/HTTPS •HTML & MSE •HTTP progressive download •MPEG Dash/CFF •HLS streaming (Apple) •Smooth Streaming (Microsoft) •HDS steaming (Adobe) •RCSP •DivX Plus Streaming technology •ASF •MPEG-2 TS •MPEG2-PS •HTML5 •RTSP •RTCP •RTP •TLS •WebRTC +DLNA •UPnP
<p style="text-align: center;">Video Codecs</p> <ul style="list-style-type: none"> •MPEG-1: ISO/IEC 11172 •MPEG-2: H.262 (used by ATSC digital broadcast) •MPEG-4: H.264 •HEVC: H.265 •WMV3 •VC-1 •Flash 	<p style="text-align: center;">Audio Codecs</p> <ul style="list-style-type: none"> •MP3 •MP2 •AAC •AC-3 (Dolby Digital) •Dolby <u>TrueHD</u> •DTS
<p style="text-align: center;">Others</p> <ul style="list-style-type: none"> •CEA-708B: Closed Captioning •TTML10 (W3C): Closed Captioning 	<p style="text-align: center;">Content Identification</p> <ul style="list-style-type: none"> •EIDR

Looking back to YANA0318....

Standards Circa 1994

Connectivity

- Component:** EIA-770.1 (analog NTSC typically using 3 wires - YP_BP_R)
- Composite:** EIA/RS-170A (analog baseband NTSC composite video)
- Coax:** 75 ohm modulated RF NTSC
- Remote Control:** IR - Proprietary

Encoding

- NTSC:** Broadcast standard for analog TV
- NTSC-J:** Broadcast standards for analog TV in Japan
- PAL:** Broadcast standard for analog 625 line/50 Hz systems used in most of Europe and parts of Asia, South America and elsewhere
- SECAM:** Broadcast standards for analog TV originating in France but used in other areas as well.

YANA0318 Report & Presentations at www.yana0318.org

YANA

You Are Not Alone

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YANA0318

Working with IP networking & technology for the efficient development, distribution and delivery of video content? You Are Not Alone.

New ideas for creating, delivering, and consuming video content often leverage and repurpose existing standards while cutting across traditional standards organization boundaries and leaving proponents feeling isolated and unheard. Meanwhile traditional standards organizations can be limited to developing standards within the boundaries defined by their scopes, and they may not even be aware of the ways their work is being used and extended, or of the unique needs of these new adopters.

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YANA1123

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The
Prague
Edition

YANA Logistics & Format

Part 1: Welcome & Hello

Part 2: Talks

Part 3: Grab a snack and beverage

Part 4: Let's talk about Streaming Video

Part 5: Wrap Up

Part 6: After YANA1123

Part 2: Talks

Talks

Lenny Giuliano – TreeDN

Guillaume Bichot - Secure access in delegated streaming

Ravid Hadar – Early data from SVTA QUIC for
Streaming Video PoC

Will Law - A curious mixture of stuff we should work on and
questions we should answer

Part 3: Grab a snack and beverage

Part 4: Let's talk about Streaming Video

Imagine:

We are at YANA in 2028

Looking back on the 5 years since 2023

What did we get right?

Imagine:

We are at YANA in 2028

Looking back on the 5 years since 2023

What did we get wrong?

Imagine:

We are at YANA in 2028

Looking back on the 5 years since 2023

What did we miss doing?

Open Discussion Time

What do you want to talk about?

Part 5: Wrap Up

Thanks to our Sponsor

NBCUniversal

Thanks for the side meeting space

IETF

Thanks to all of you

YANA: You Are Not Alone

Part 6: After YANA1123

Post Report will be published
www.yana1123.org

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