

YANA1123

YANA1123
(the Prague Edition)

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Looking back to YANA0318....



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Organizers:
Leslie Daigle
Glenn Deen

YANA0318
You Are Not Alone
London 3.16.2018

Looking back to YANA0318....

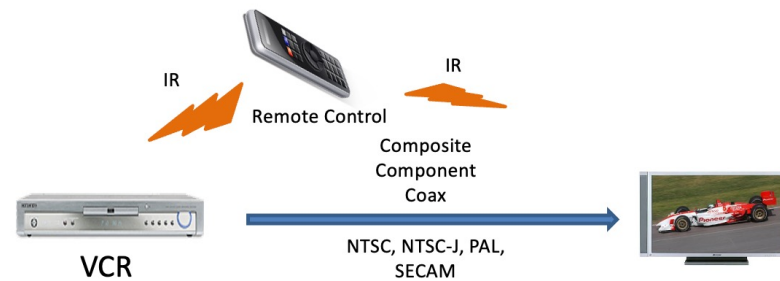
YANA is not your traditional death by powerpoint event.

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.

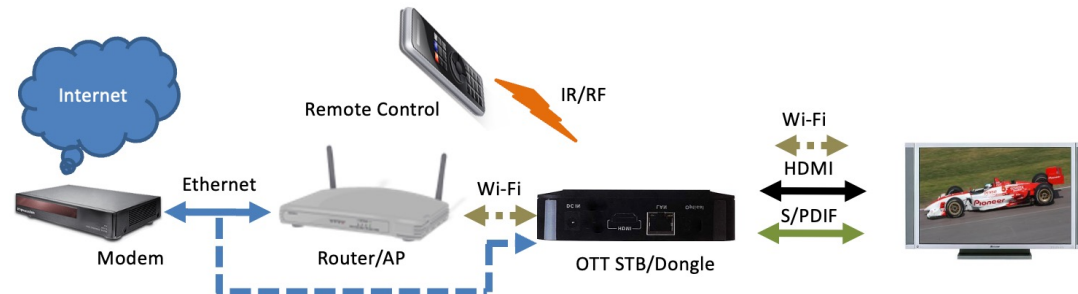
Looking back to YANA0318....

Content Delivery is getting much more Complex

Television Circa 1994



OTT Video Circa TODAY



Looking back to YANA0318....

A Few of Standards Circa Today

Connectivity <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	Network & Transport <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)•RCS•DivX Plus Streaming technology•ASF•MPEG-2 TS•MPEG2-PS•HTML5•RTSP•RTCP•RTP•TLS•WebRTC+DLNA•UPnP
Video Codecs <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	Audio Codecs <ul style="list-style-type: none">•MP3•MP2•AAC•AC-3 (Dolby Digital)•Dolby <u>TrueHD</u>•DTS
Others <ul style="list-style-type: none">•CEA-708B: Closed Captioning•TTML10 (W3C): Closed Captioning	Content Identification <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

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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

The
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Talks

Guillaume Bichot - Secure access in delegated streaming

Lenny Giuliano – TreeDN

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 6: After YANA1123

Post Report will be published
www.yana1123.org

Contact the Organizers:

Glenn Deen – Glenn.Deen@NBCUNI.COM
Leslie Daigle – LDaigle@ThinkingCat.com