

# **RTL Livestreaming icm Azure Media Services**

# RTL Livestreaming

## Topics:

- Intro
- Ingest (de RTL Handicap)
- Channel Setup (Azure multi region)
- Dynamic Packaging (Azure)
- Dynamic Encryption (Azure)
- CDN (RTL/Azure/3<sup>rd</sup> party)
- Loadbalancing (Traffic Manager Azure)
- Vragen?

# RTL Livestreaming

rtlnederland

## Intro:

### **Fardau van Neerden**

Sr. System Engineer

RTL Nederland

### **RTL Nederland**

- All-round media bedrijf
- Marktleider in Nederland
- 8 TV zenders
- VoD platformen: RTLXL, NLZIET, VIDEOLAND
- Livestreaming: UEFA Europa League, Darts, Le Mans, WK Rugby, RTL Nieuws

# RTL Livestreaming

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## Ingest (de RTL Handicap)



Luxemburg

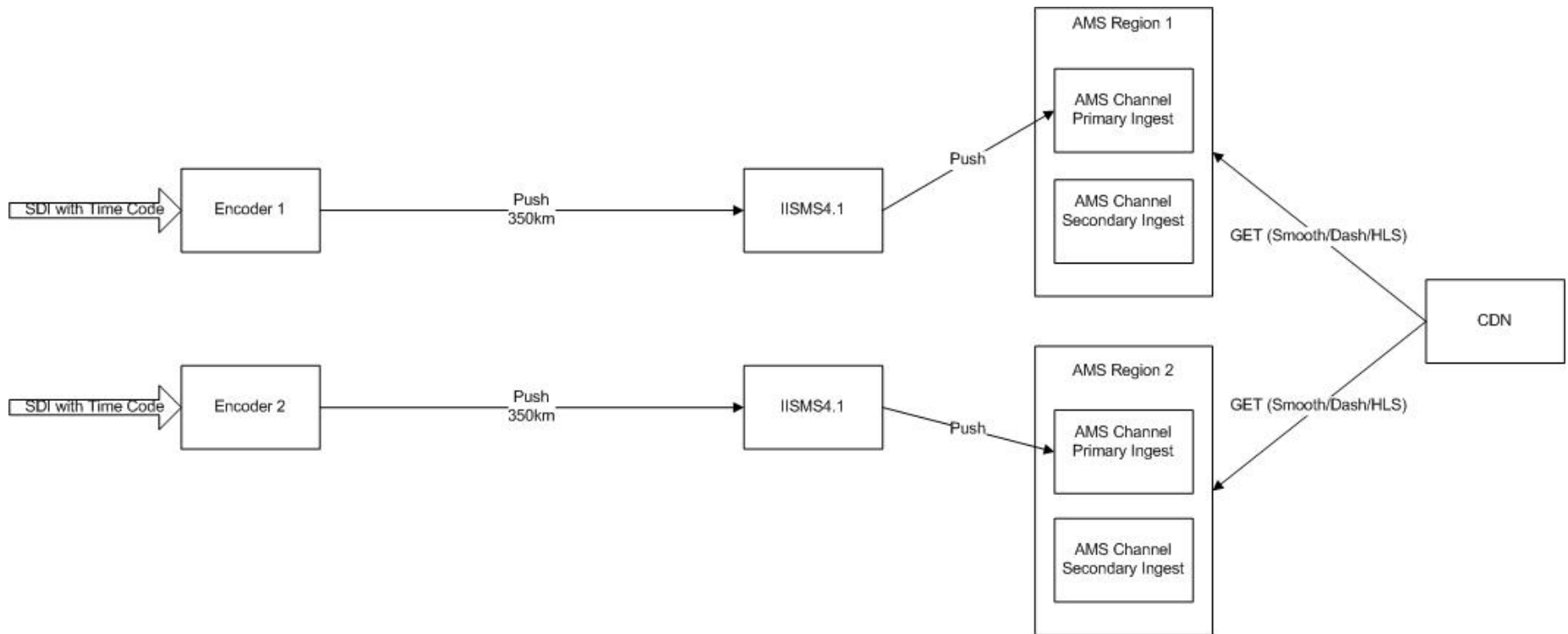
~350km



RTL Nederland

# RTL Livestreaming

## Ingest (de RTL Handicap)



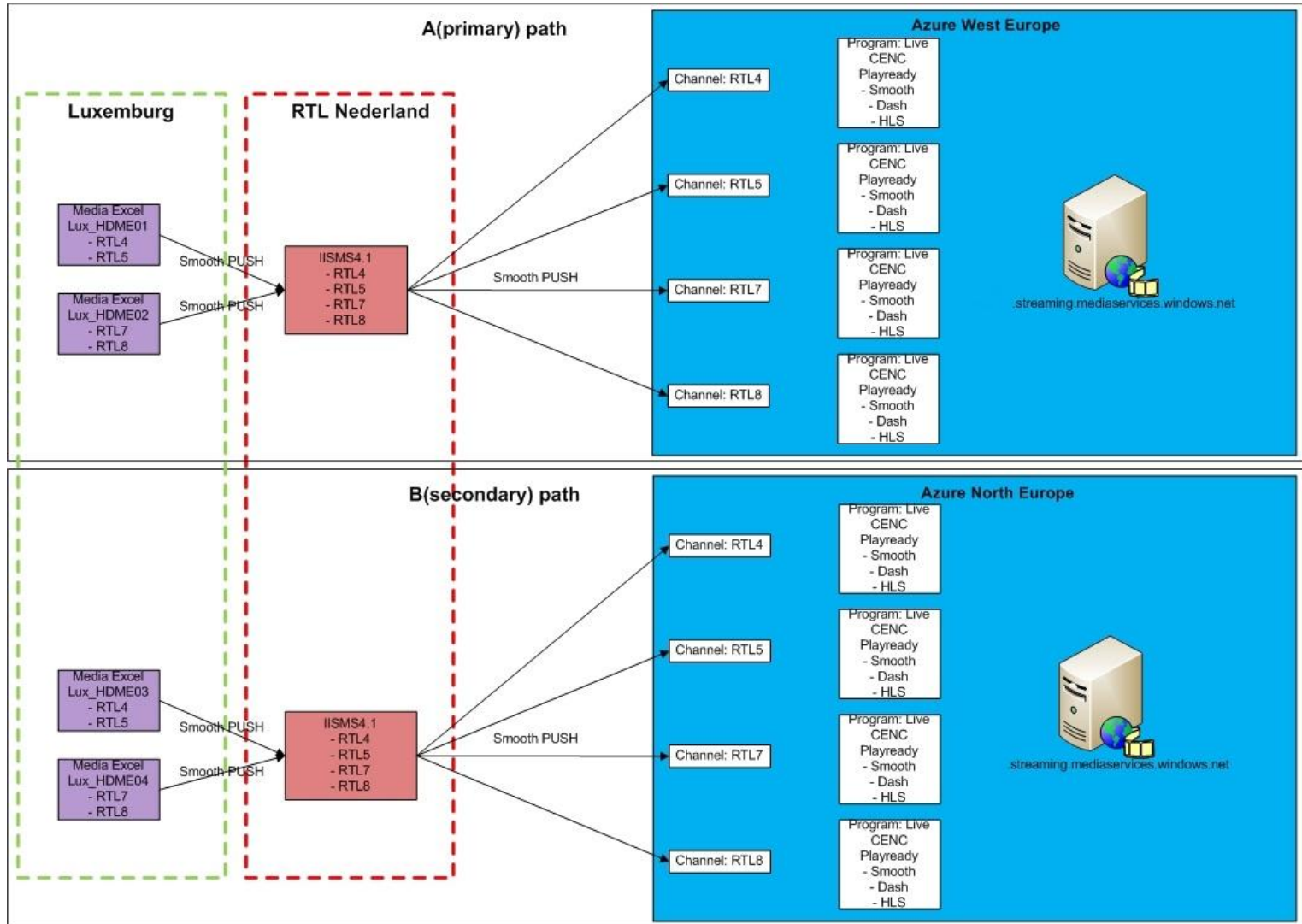
# RTL Livestreaming

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## Channel Setup (Azure multi region)

- Channel (ingest)
- Program (publication)
- Streaming Endpoint (streaming)

# RTL Livestreaming



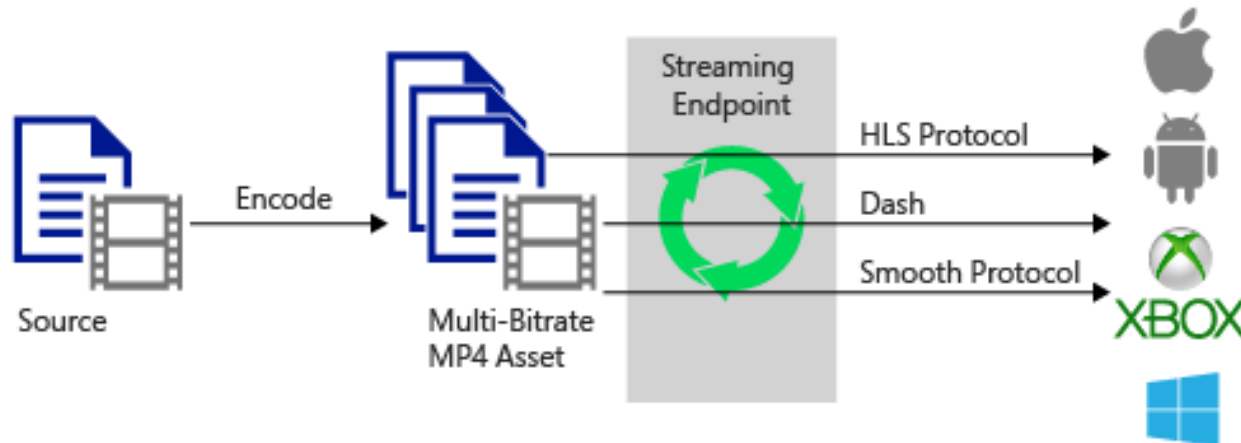
## Dynamic Packaging (Azure)

- HLS (IOS/AppleTV/Flash)
- Smooth (IOS/Silverlight/Xbox/SmartTV)
- Dash (HTML5)



# RTL Livestreaming

## Dynamic Packaging (Azure)

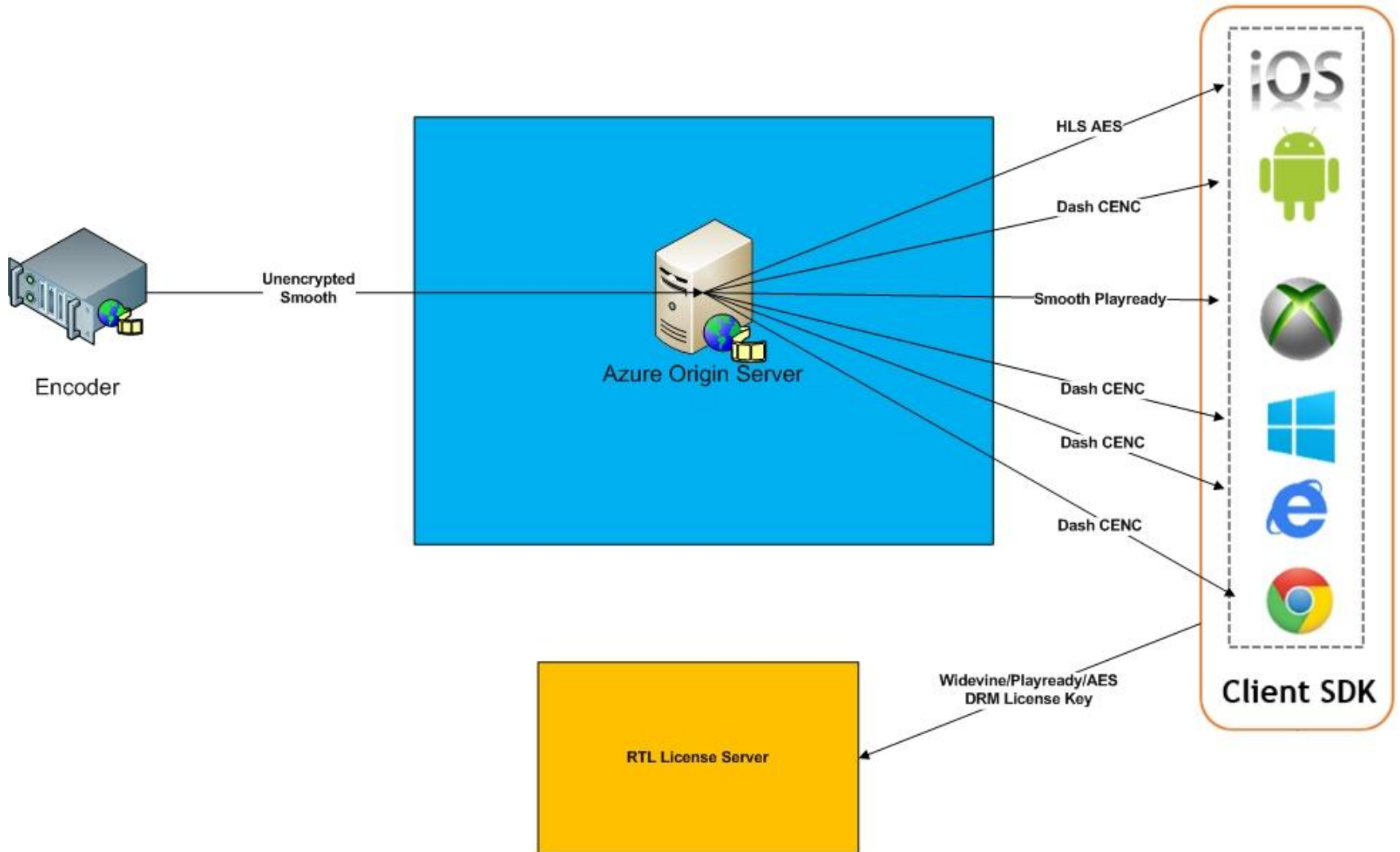


# RTL Livestreaming

## Dynamic Encryption (Azure)

- HLS AES
- Smooth Playready
- Dash CENC (Common Encryption)

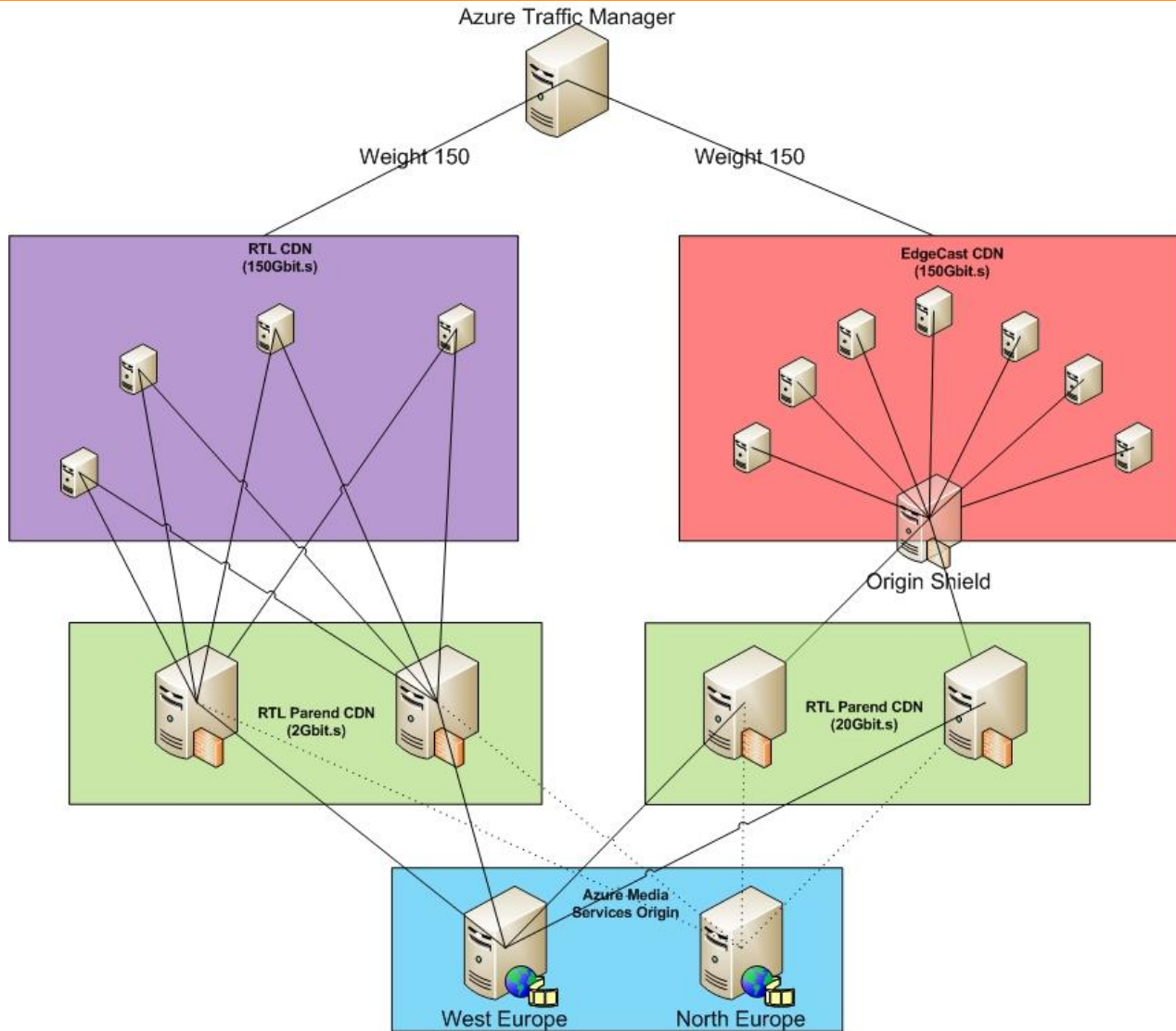
# RTL Livestreaming



## **CDN (RTL/Azure/3<sup>rd</sup> party)**

- 150 Gbits RTL CDN op basis van ARR (Application Request Routing)
- 150 Gbits (committed) Azure CDN (Verizon Edgecast)
- Loadbalancing obv Azure Traffic Manager

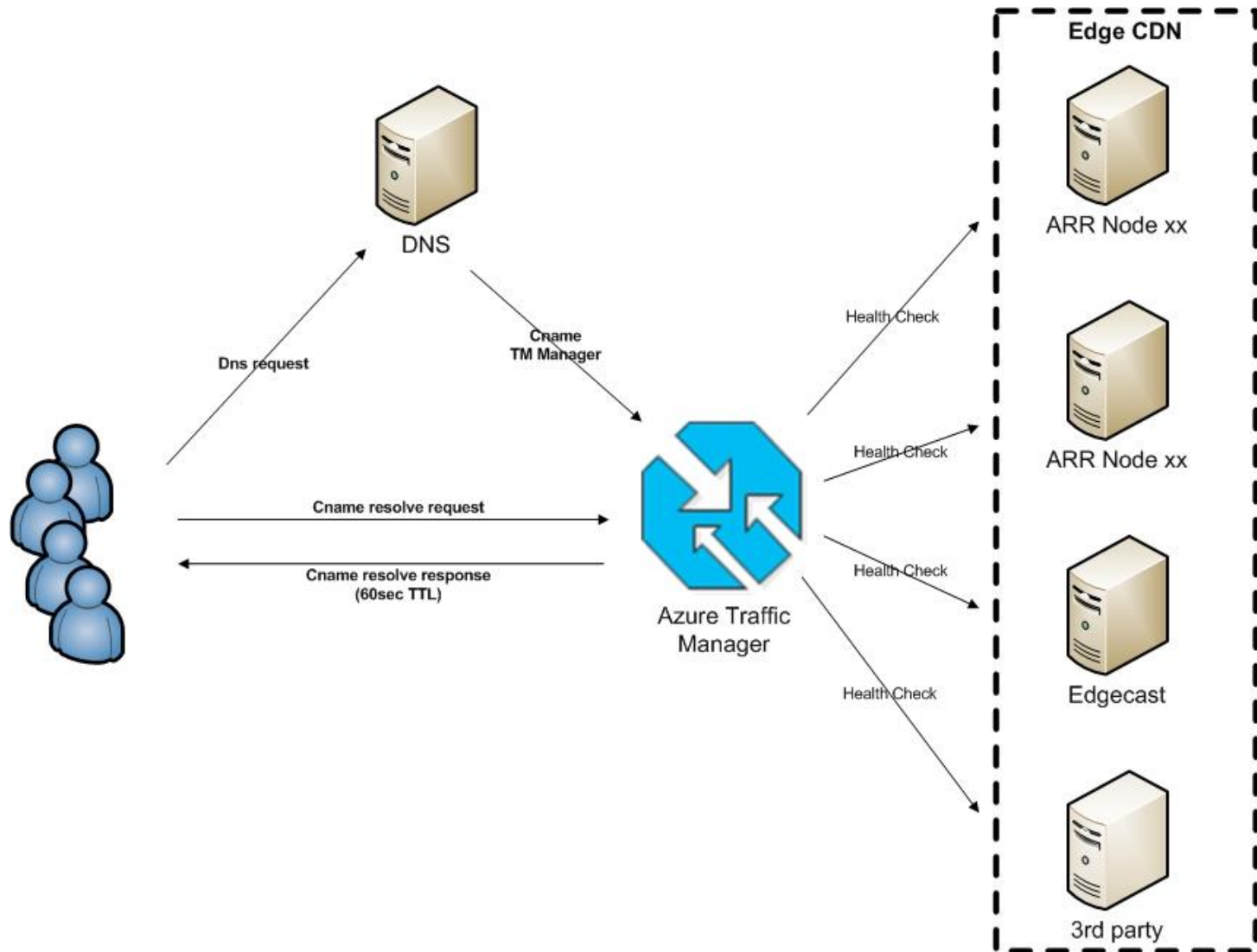
# RTL Livestreaming



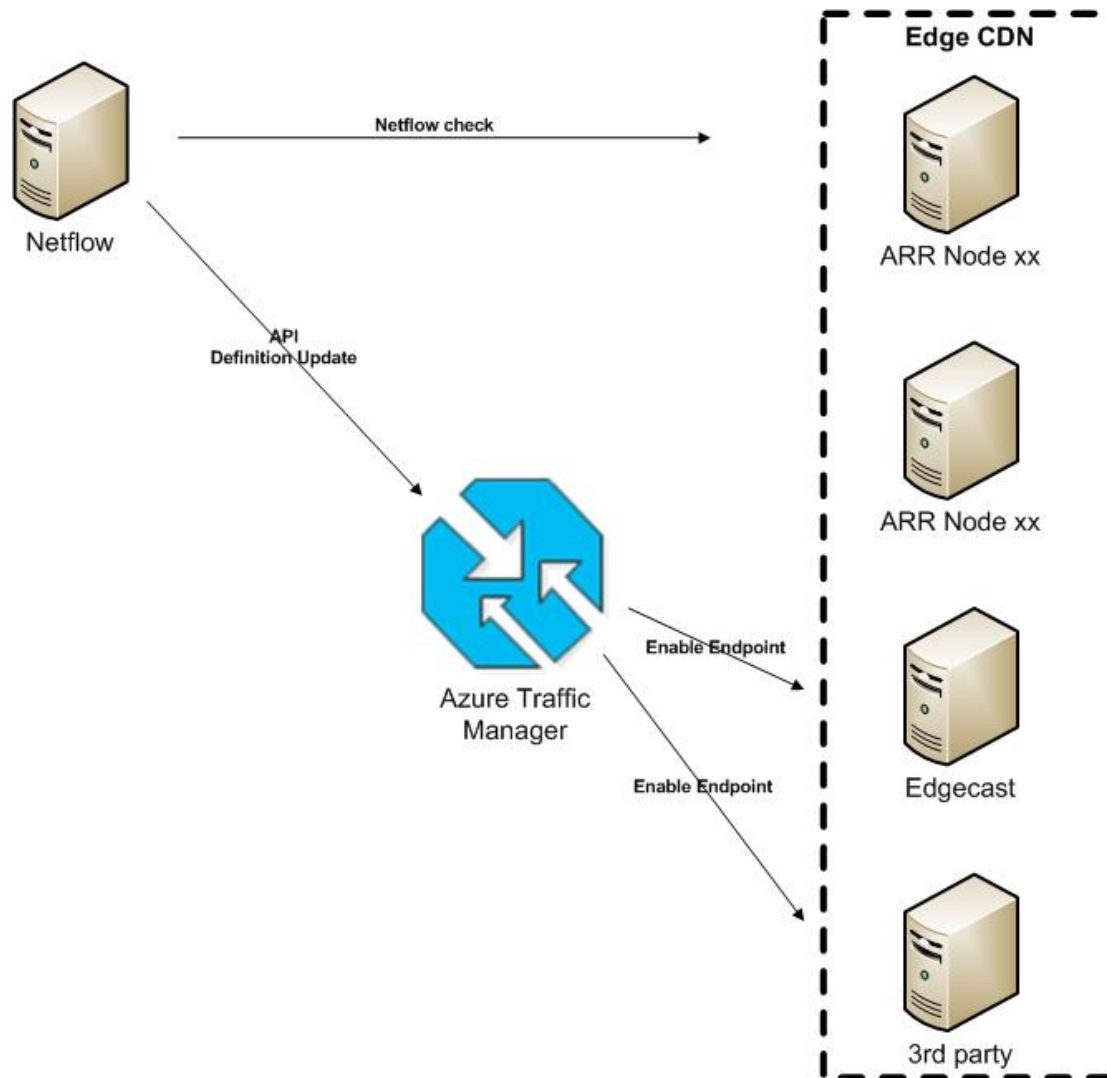
## **Loadbalancing (Traffic Manager Azure)**

- DNS Based Balancing
- Health Check
- Netflow integratie obv NFSEN (automated inschakelen van externe CDN)

# RTL Livestreaming



# RTL Livestreaming





**Vragen?**