

Agenda

14:00

- Welcome
- EBU Broadband Distribution Architectures group
- CDN procurement recommendations
- Procurement process considerations
- Functional requirements as a list
- Service Level Agreement as example

14:30

- Review comments
 - Will Law (Akamai)
 - Thijs de Zoete (CDN Alliance)
- Q&A

15:00 END





Broadband Distribution Architectures

A working group of the EBU T&I Strategic Programme for Distribution (SP-Distribution)

Helps EBU Members develop online media distribution strategies by sharing knowledge on relevant technologies, architectures and market developments

Publishes research and guidance on topics relating to online media streaming, bringing together the collective knowledge and experience from a broad spectrum of EBU PSBs

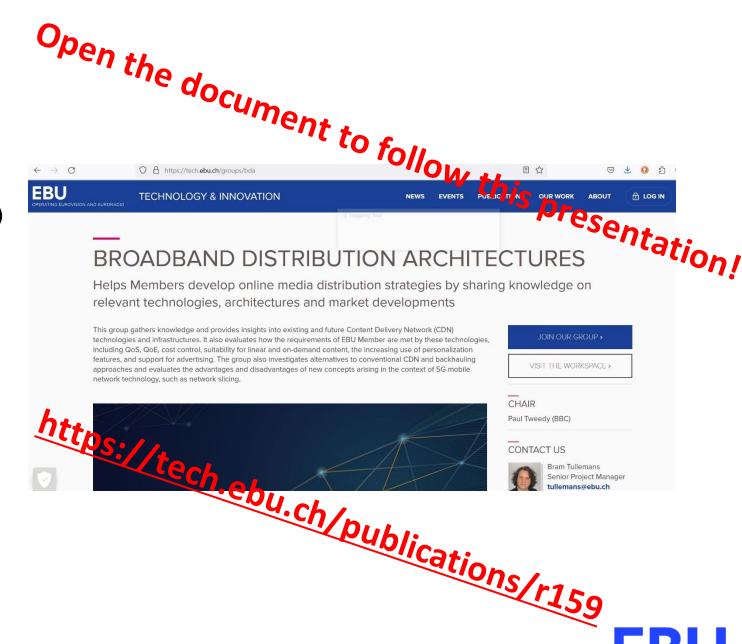
EBU TR068 "CDN Architectures Demystified": https://tech.ebu.ch/publications/tr068

EBU R159 "Procurement of Interoperable Content Delivery

Delivery Networks": https://tech.ebu.ch/publications/r159

Provides expertise and guidance on online distribution to EBU Technology & Innovation

More: https://tech.ebu.ch/groups/bda





EBU R159 - What, Why, How

All online streaming services rely on a mixture of CDNs to deliver their services

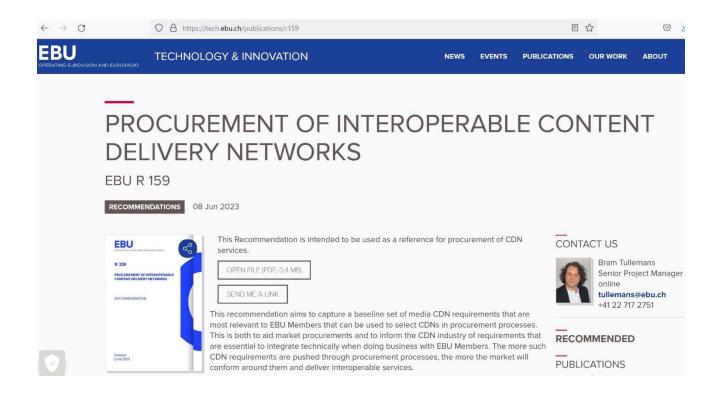
Third-party CDNs are necessary to fulfil functional & non-functional requirements

PSBs must be compliant with their local procurement frameworks and regulatory requirements

Multi-CDN approach becomes necessary at scale

No two CDNs are completely alike

Challenge: how to minimise the differences and promote interoperability to minimise friction of change & increase flexibility, in a fragmented & competitive market





EBU R159 - What, Why, How

Solution: produce a set of recommendations containing a baseline set of PSB CDN procurement practices, guidance & requirements, compatible with methods of public procurement

Requirements collated from a spectrum of BDA members, all actively involved in CDN procurement and operation

Common terminology used to describe baseline features & capabilities necessary for PSB media delivery

Recommendations can be taken & mapped to the specific business needs of the purchaser

In PSBs using the baseline to describe requirements, capabilities and service levels, the CDN market can be invited to become more interoperable to meet the service needs of each PSB customer



R 159

PROCUREMENT OF INTEROPERABLE CONTENT DELIVERY NETWORKS

RECOMMENDATION

Geneva June 2023



Recommendation	3
Background	4
Interoperability	4
Business needs	4
Process Considerations	5
Requirements categories	6
Media	6
Resilience	6
Delivery Capacity	6
Observability	6
Origin Protection	7
Cache Control	7
Custom Behaviours	7
Content Protection	7
Control Plane	7
Change Control	7
Security	
Sustainability	8
Service Level (see Annex B)	8
Annex A: Functional Requirements	9
Annex B: Example CDN SLA	15
General Principles	15
Availability SLA	16
Throughput SLA	16

Index recommendation



Procurement of interoperable Content Delivery Networks

Recommendation

The EBU, considering that:

- An increasing amount of online delivery capacity is required by EBU Members to reach audiences with their media products.
- EBU Members increasingly depend on private and public Content Delivery Networks (CDNs).
- Interoperability between CDN services is essential for the deployment of a sustainable online distribution operation.

And recognising that:

- EBU Members must be compliant with their company's procurement frameworks and regulatory requirements.
- Every tender is unique, as it combines specific demands with generic requirements.

Recommends that:

The following technical / operational requirements and process considerations are used when procuring CDN deployments¹.

- a) When developing their CDN procurement documents, the technical requirements in Annex A are mapped to the specific demands of the procurer.
- b) The Service Level Agreement example guidelines in Annex B be included in the procurement documentation in full or in part. They should be used in negotiations with CDN suppliers to reach agreement on the required support.
- c) To use a multi-CDN instead of a single CDN deployment when entering into a multiyear contract.
- d) For a multi-CDN setup, recurring 'mini-competitions' on price are organised to fix traffic commitments for a given period within the multiyear contract term.
- e) After an initial selection process based on the tenders received, a proof-of-concept phase should be performed that needs to be successful before contracts are awarded.

Note This recommendation is not a set of prescriptive steps to follow - questions and approach will change depending on the supplier and the procurement.

Annexes A and B are integral to the recommendation. The following background sections are informative.

Summary recommendations



Review R159

- Business needs
- Process considerations
- Requirement categories
- Functional requirements
- Example CDN SLA



R 159

PROCUREMENT OF INTEROPERABLE CONTENT DELIVERY NETWORKS

RECOMMENDATION

Geneva June 2023



Comments, Questions & Answers

- Review comments
 - Will Law (Akamai)
 - Thijs de Zoete (CDN Alliance)
- Q&A
 - Open to all!

Please ask your questions in the Zoom Q&A section!



