

62nd IETF - Minneapolis, MN, USA MMUSIC WG

New mode for rfc3640: AAC-BSAC with MPEG-21 gBSD
draft-feiten-avt-bsacmode-for-rfc3640-00.txt

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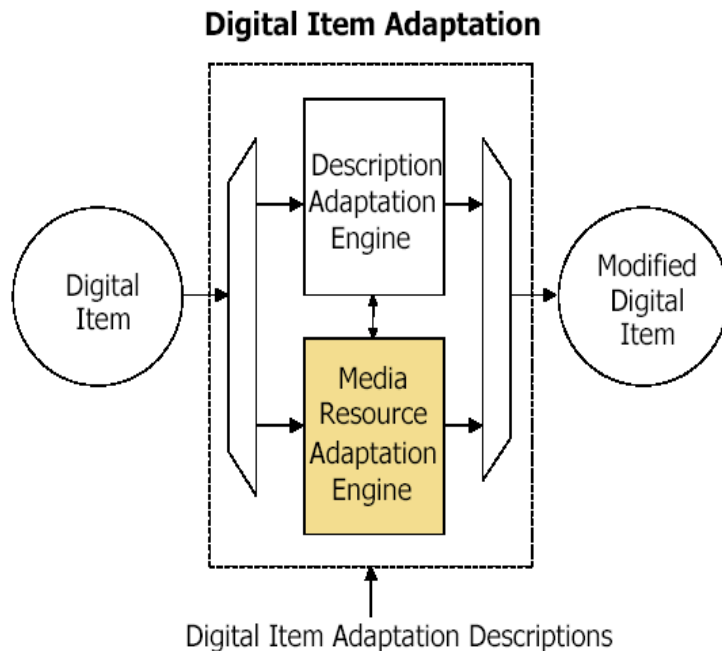
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outline

- motivation
- MPEG-4 and RFC 3640
- conclusions

motivation



- usage in the scope of an adaptation framework based on **MPEG-21 Part-7 Digital Item Adaptation**
- supporting bitstream adaptation in active network nodes (content adaptation nodes)
- new mode shall allow attaching a bitstream description to the BSAC payload in order to support the **scaling of the bitrate** dynamically

MPEG-4 and rfc 3640

- RFC 3640 so far defines five modes:

Generic	generic
Constant Bitrate Celp	CELP-cbr
Variable Bitrate Celp	CELP-vbr
Low Bitrate AAC	AAC-lbr
High Bitrate AAC	AAC-hbr

- modes are signalled with the SDP fmtp parameter
e.g. mode=BSAC-gbsd

```
m=audio 49230 RTP/AVP 96
a=rtpmap:96 mpeg4-generic/44100/2
a=fmtp:96 streamtype=5; profile-level-id=22; mode=BSAC-gbsd;
config=2C90; sizeLength=11; indexLength=5; indexDeltaLength=5;
auxiliaryDataSizeLength=16; constantDuration=1024
```

conclusion

- MPEG-21 digital item adaptation framework can be used for content agnostic adaptation of the media bitrate
- the abstract framework is specified without transport layer binding → need for standardized bindings to existing transport protocols
- proposal for a new mode "Scalable Bitrate BSAC" named "BSAC-gbsd" shall be considered

Thank you for your attention !

Questions and comments are welcome,
discussion on email-reflector avt@ietf.org
is recommended