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AVT WG  
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## Registration of parityfec MIME types

### STATUS OF THIS MEMO

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### Abstract

The RTP payload format for generic forward error correction allows RTP participants to improve loss resiliency through the use of traditional parity based channel codes. This payload format requires four new MIME types, audio/parityfec, video/parityfec, text/parityfec and application/parityfec. This document serves as the MIME type registration for those formats.

### 1 Introduction

The RTP payload format for generic forward error correction [[1](#)] allows RTP participants to improve loss resiliency through the use of traditional parity based channel codes. This payload format requires four new MIME types, audio/parityfec, video/parityfec, text/paritfyfec and application/parityfec. [RFC 2048](#) [[2](#)] defines

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procedures for registration of new MIME types within the IETF tree. Furthermore, the Audio/Video Transport working group has defined additional procedures that must be followed when registering RTP payload formats [\[3\]](#). This document serves as the MIME type registration for those formats based on those procedures.

## [2](#) Registration of audio/parityfec

To: ietf-types@iana.org

Subject: Registration of MIME media type audio/parityfec

MIME media type name: audio

MIME subtype name: parityfec

Required parameters: none

Note that [\[3\]](#) mandates that RTP payload formats without a defined rate must define a rate parameter as part of their MIME registration. The payload format for generic forward error correction [\[1\]](#) does not specify a rate parameter. However, the rate for FEC data is equal to the rate of the media data it protects.

Optional parameters: none

Typical optional parameters [\[3\]](#), such as the number of channels, and the duration of audio per packet, do not apply to FEC data. The number of channels is effectively the same as the media data it protects; the same is true for the duration of audio per packet.

Encoding considerations: This format is only defined for transport within the Real Time Transport protocol (RTP) [\[4,5\]](#). Its transport within RTP is fully specified with [RFC 2733](#) [\[1\]](#).

Security considerations: none

Interoperability considerations: none

Published specification: This MIME type is described fully

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within [RFC 2733](#) [1].

Applications which use this media type: Audio and video streaming tools which seek to improve resiliency to loss by sending additional data with the media stream.

Additional information: none

Person & email address to contact for further information:

Jonathan Rosenberg  
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200 Executive Drive  
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West Orange, NJ 07046  
email: [jdrosen@dynamicsoft.com](mailto:jdrosen@dynamicsoft.com)  
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Intended usage: COMMON

Author/Change controller: This registration is part of the IETF registration tree.

RTP and SDP Issues: Usage of this format within RTP and the Session Description Protocol (SDP) [6] are fully specified within [RFC 2733](#) [1].

### [3](#) Registration of video/parityfec

To: ietf-types@iana.org

Subject: Registration of MIME media type video/parityfec

MIME media type name: video

MIME subtype name: parityfec

Required parameters: none

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Note that [\[3\]](#) mandates that RTP payload formats without a defined rate must define a rate parameter as part of their MIME registration. The payload format for generic forward error correction [\[1\]](#) does not specify a rate parameter. However, the rate for FEC data is equal to the rate of the media data it protects.

Optional parameters: none

Typical optional parameters [\[3\]](#), such as the number of channels, and the duration of audio per packet, do not apply to FEC data. The number of channels is effectively the same as the media data it protects; the same is true for the duration of video per packet.

Encoding considerations: This format is only defined for transport within the Real Time Transport protocol (RTP) [\[4,5\]](#). Its transport within RTP is fully specified with [RFC 2733](#) [\[1\]](#).

Security considerations: none

Interoperability considerations: none

Published specification: This MIME type is described fully within [RFC 2733](#) [1].

Applications which use this media type: Audio and video streaming tools which seek to improve resiliency to loss by sending additional data with the media stream.

Additional information: none

Person & email address to contact for further information:

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West Orange, NJ 07046  
email: [jdrosen@dynamicsoft.com](mailto:jdrosen@dynamicsoft.com)  
[jdrosen@alum.mit.edu](mailto:jdrosen@alum.mit.edu)

Intended usage: COMMON

Author/Change controller: This registration is part of the IETF registration tree.

RTP and SDP Issues: Usage of this format within RTP and the Session Description Protocol (SDP) [6] are fully specified within [RFC 2733](#) [1].

[4](#) Registration of text/parityfec

To: [ietf-types@iana.org](mailto:ietf-types@iana.org)

Subject: Registration of MIME media type text/parityfec

MIME media type name: text

MIME subtype name: parityfec

Required parameters: none

Note that [\[3\]](#) mandates that RTP payload formats without a defined rate must define a rate parameter as part of their MIME registration. The payload format for generic forward error correction [\[1\]](#) does not specify a rate parameter. However, the rate for FEC data is equal to the rate of the media data it protects.

Optional parameters: none

Typical optional parameters [\[3\]](#), such as the number of channels, and the duration of audio per packet, do not apply to FEC data. The number of channels is effectively the same as the media data it protects; the same is true for the duration of text per packet.

Encoding considerations: This format is only defined for

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transport within the Real Time Transport protocol (RTP) [\[4,5\]](#). Its transport within RTP is fully specified with [RFC 2733](#) [\[1\]](#).

Security considerations: none

Interoperability considerations: none

Published specification: This MIME type is described fully within [RFC 2733](#) [\[1\]](#).

Applications which use this media type: Audio, video and text streaming tools which seek to improve resiliency to loss by sending additional data with the media stream.

Additional information: none

Person & email address to contact for further information:

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Intended usage: COMMON

Author/Change controller: This registration is part of the IETF registration tree.

RTP and SDP Issues: Usage of this format within RTP and the Session Description Protocol (SDP) [[6](#)] are fully specified within [RFC 2733](#) [[1](#)].

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[5](#) Registration of application/parityfec

To: [ietf-types@iana.org](mailto:ietf-types@iana.org)

Subject: Registration of MIME media type application/parityfec

MIME media type name: application

MIME subtype name: parityfec

Required parameters: none

Note that [3] mandates that RTP payload formats without a defined rate must define a rate parameter as part of their MIME registration. The payload format for generic forward error correction [1] does not specify a rate parameter. However, the rate for FEC data is equal to the rate of the media data it protects.

Optional parameters: none

Typical optional parameters [3], such as the number of channels, and the duration of audio per packet, do not apply to FEC data. The number of channels is effectively the same as the media data it protects; the same is true for the duration of application data per packet.

Encoding considerations: This format is only defined for transport within the Real Time Transport protocol (RTP) [4,5]. Its transport within RTP is fully specified with RFC 2733 [1].

Security considerations: none

Interoperability considerations: none

Published specification: This MIME type is described fully within RFC 2733 [1].

Applications which use this media type: Audio, video and application streaming tools which seek to improve resiliency to loss by sending additional data with the



Additional information: none

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Intended usage: COMMON

Author/Change controller: This registration is part of the IETF registration tree.

RTP and SDP Issues: Usage of this format within RTP and the Session Description Protocol (SDP) [[6](#)] are fully specified within [RFC 2733](#) [[1](#)].

## [6](#) Security Considerations

This MIME registration does not introduce any additional security considerations.

## [7](#) Author's Addresses

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