

**RTP Payload Format for H.263 using [RFC2190](#) to Historic status
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Abstract

The first RFC that describes RTP payload format for H.263 is [RFC2190](#). This specification discusses why to move this RFC to historic status.

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1. Introduction

The ITU-T recommendation H.263 [[H263](#)] specifies the encoding used by ITU-T compliant video-conference codecs. The first version (version 1) was approved in 1996 by the ITU and a payload format for encapsulating this H.263 bitstream in the Real-Time Transport Protocol (RTP) is in [RFC-2190](#) [[RFC2190](#)]. In 1998 the ITU approved a new version of H.263 [[H263P](#)] that is also known as H.263 plus. This version added optional features and a new payload format is now in [RFC-2429](#) [[RFC2429](#)]. [RFC-2429](#) is capable of carrying encoded video bit streams that are using only the basic H.263 version 1 options.

[RFC-2429](#) [[RFC2429](#)] states that it does not replace [RFC-2190](#), which continues to be used by existing implementations, and may be required for backward compatibility in new implementations. Implementations using the new features of the 1998 version of H.263 and later versions, shall use the format described in [RFC-2429](#).

[RFC-2429](#) is now being revised and will now include a language that will make it clear that all new implementations MUST use [RFC2429-bis](#) [[rfc2429bis](#)] for encoding of any version of H.263.

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2. Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119](#) [[RFC2119](#)] and indicate requirement levels for compliant RTP implementations.

3. Recommendation

[RFC-2429](#) and the [rfc2429](#)-bis draft [[rfc2429bis](#)] can be used to carry new H.263 payload even if they are using only the features defined in the 1996 version. All the H.263 features that are part of the 1996 version are also part of the 1998 version and later versions.

It is recommended that [RFC-2190](#) will be moved to historic status and that as stated in draft [rfc2429](#)-bis [[rfc2429bis](#)] new implementations will use the revised draft [rfc2429bis](#) and the H263-1998 and H263-2000 MIME subtypes.

4. IANA Considerations

There are no IANA considerations with this specification.

5. Security Considerations

Security consideration for H263 video RTP payload can be found in the draft [rfc2429](#)-bis [[rfc2429bis](#)]. Using the payload specification in draft [rfc2429](#)-bis instead of [RFC2190](#) does not affect the security consideration since both of them refer to [RFC3550](#) [[RFC3550](#)] and [RFC3551](#) [[RFC3551](#)] for security considerations.

6. Informative References

- [H263] International Telecommunications Union, "Video coding for low bit rate communication", ITU Recommendation H.263, March 1996.
- [H263P] International Telecommunications Union, "Video coding for low bit rate communication", ITU Recommendation H.263, January 2005.
- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.
- [RFC2190] Zhu, C., "RTP Payload Format for H.263 Video Streams", [RFC 2190](#), September 1997.
- [RFC2429] Bormann, C., Cline, L., Deisher, G., Gardos, T., Maciocco, C., Newell, D., Ott, J., Sullivan, G., Wenger, S., and C. Zhu, "RTP Payload Format for the 1998 Version of ITU-T Rec. H.263 Video (H.263+)", [RFC 2429](#), October 1998.
- [RFC3550] Schulzrinne, H., Casner, S., Frederick, R., and V. Jacobson, "RTP: A Transport Protocol for Real-Time Applications", STD 64, [RFC 3550](#), July 2003.
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- [rfc2429bis] Ott, J., Sullivan, G., Wenger, S., and R. Even, "[draft-ietf-avt-rfc2429-bis-07.txt](#)", December 2004.

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