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(87)

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(71) , , . . 1

(72) -5656 . 6

-5656 . 6

(74)
:

(54) R S

RS , 가 ,

dio networks) (congestion) 가 / (mobile ra

2002 5 'draft=ietf-avt-uxp-01.txt' IETF 'An RTF Payloa
d Format for Erasure-Resilient Transmission of progressive Multimedia Streams'
(overhead) (unequal error protection strategy)
(Reed-Salomon code)

1 5
9 7 10
가
가
(RS) 가 RS RS
가 RS RS
/

- 1
- 2 RS
- 3
- 4 MPEG-4

가
 UMTS, GPRS, CRC (Cyclic Redundancy Check)

(conversational applications)

(FEC) 가 가
 FEC 가 1 1 TX DP_i
 SS, DP_i EP_j DP_i
 FEC DP_i TB SS MPEG-4 NET RX EP_j
 1 2 3 RX RR
 DD(, MPEG-4)

RS (n, k) RS (n, k) k 가)
 RS(n, k) 2t+p=n-k t
 RS(n, k) RS(n, k)

RS(n, k) FEC k RS(n, k)
 (n-k) ()
 가 , 2

2 DP_i (i=1,...,k) (n-k) EP_j (j=n-k,...,n) L TB k
 1 (P1) 2 (P2) 1 (P1) 2 (P2) 가 가
 L RS(n, k) , P1/P2가 가

RS(n, k) k (rank) q(q=1, ...m, m) k (s_{q,1} ... s_{q,k}) (s_{q,1} ... s_{q,k})
 (...s_{q,n}) (n-k) k (s_{q,1} ... s_{q,k}) (s_{q,1} ... s_{q,k})

$(s_{q,(n-k)}, \dots, s_{q,n})$ (n-k) n CW_q .
 , (n-k) , j=n-k, ..., n , m (s_{l,j}, ..., s_{m,j})
 P2 가 P2 , EP_n EP_{n-1} EP_n EP_{n-1} 2 ,
 3 FEC SCT ECS 2 3 ECS,
 ECP SCT RX 가 I , (RTCP
 , SCT , RX 가 , L
 4 , MPEG-4 (DP) , I-VP
 (Intra) (Inter) (P-VP 4 , I-VP
 (both) 1 B1 2 B2 .
 I-VP , 1 B1 :
 - (resynchronisation markers) RM,
 - HD
 - DCT(;Discrete Cosine Transform) DC DC-C,
 - DC DC-M .
 P-VP , 1 P1 :
 - RM,
 - HD,
 - (motion data) MD,
 - MM .
 I-VP P-VP 2 B2 DCT AC AC-C .
 1 B1 2 B2 가 , 가 , 가 ,
 B2 , 가 .
 MPEG-4 B1 B2 , 2 가 L , B1 L P1

(byte) B1 TB 가 (byte) B1 L 가 B1 (pa
 MPEG-4 (padding bits) , RS
 가 , MPEG-4 가 ,
 가 . RX RS
 가 .
 (RTP)
 , 1998 11 3 IETF RFC 1889 ,
 , 1999 5 2 J.Rosenberg H.Shulzrinne IETF ,
 RTF (An RTP payload format for Reed Solomon codes) '

(57)

1.

$(s_{q,j} \ j=1, \dots, k)$, , (DP_i)
 $(RS(n,k))$, ,
 $(s_{q,j} \ j=n-k, \dots, n)$, ,

(EP_j) ,

2.

1

q k $(n-k)$, ,
 $(n-k)$ 가 q k () ,

3.

1

가

4.

1

5.

(TX)

(RX)

$(s_{q,j} \ j=1, \dots, k)$ (DP_i) ,

$(RS(n,k))$, ,
 $(s_{q,j} \ j=n-k, \dots, n)$, ,

(EP_j)

6.

5

$q_{(n-k)}$ k k (n-k) q k ()

7.

(TX)

(s_{qj} j=1,...,k)

(DP_i)

(s_{qj} j=n-k,...,n)

(EP_j)

8.

7

$q_{(n-k)}$ k k (n-k) q k ()

9.

, 1

10.

- (n-k)

k

, (n-k)
k

q k q

()

가



