

(19)
(12)

(KR)
(A)

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10-2004-0096363
2004 11 16

(21)

10-2003-0029382

(22)

2003 05 09

(71)

416

134

(72)

134

27|278-11

1003-401

(74)

:

(54)

가 .

가

가

1
2
3
.

(Code Division Multiple Access : CDMA)
(Universal Mobile Telecommunication Service : UMTS)

CDMA
14.4kbps

. 1xEV DO(EVolution Data Only)
1xEV DO

1xEV -DV(Evolution Data and Voice)

1xEV -DV 가 (Quality of Service : QoS)

1 . 1 1X EV -DV

K 가 K 가
1:1

(Pilot)

가 ,

QoS

Figure 1: Sequence Segmentation and RLP Allocation. The diagram illustrates the process of segmenting a sequence into RLPs (Residual Lengths) and allocating them to a QoS (Quality of Service) stream. It shows a sequence of 12 elements (12, ..., 12n) being segmented into RLPs of length (20) and (12). The RLPs are then allocated to a QoS stream, with the sequence number (Sequence Number) being updated. The diagram also shows the allocation of RLPs to a QoS stream, with the sequence number being updated. The diagram includes labels for 'QoS', 'RLP', 'Sequence Number', and '가' (Korean for 'that' or 'which').

가

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가

가

,

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가

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,

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2

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2

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QoS

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.

TOS

가

.

(120)

TOS(Type of Service)

(120)

(141)

.

,

(130)

(131)

(132)

(131)

.

(131)

RLP

,

(130)

RLP

,

RLP

RLP

.

가

(140)

(141),

(142),

(143)

.

(140)

2

,

,

(141)

,

<

1>

< 2>

,

(142)

.

< 1>

.

1

$$\alpha = \frac{RT \text{ rate} \times \# \text{ of session}}{RT \text{ rate} \times \# \text{ of session} + NRT \text{ rate} \times \# \text{ of session}}$$

< 1>

RT rate

, NRT rate

, # of ~ sessio

n

($\alpha \ll 1$)

.

< 1>

,

가

, $\alpha \ll 1$

.

, 가 , α 1 , 1 . α 1

< 2> < 1> α l k (fini sh time) , ' (QoS) 가

2

$$F T_i^k = F T_i^{k-1} * \left(\frac{\text{priority} \times \alpha + 1}{\text{priority} + 1} \right) + \frac{L_i^k}{\Phi_i}$$

< 2> , $F T_i^k$ i k , L_i^k , Φ_i
 가 (weight) k-1 < 2> 가 k $\frac{L_i^k}{\Phi_i}$ 가 k
 α , k-1 < 1> α
 k ($\alpha < 1$) , 가 α 가 1 , 1 ,
 , 가 α

< 2> (priority) IP TOS (120)가 (141)가
 가 2 10

(142) (141)
 , (143)

(142) (142A, 142B) (142A, 142B)
 , (2 가)

2) 가 , (143) (143) < (14
 3>, < 4>, < 5> ,

(143) < 3> < 4>

< 3> i SIR γ_i

3

$$\frac{G_i P_i(t)}{\sum_{j \neq i} P_j(t) + \eta_0 W} \geq v_i$$

P_i , G_i , W , η_o AWGN
 $P_j(t)$, SIR , AWGN
 P_i , G_i , W , η_o AWGN
 P_i , G_i , W , η_o AWGN

$$P_i(t) = \frac{\eta_o W g_i}{1 - \sum_{j=1}^{N(t)} g_j} g_i = \frac{g_i}{g_i + G_i}$$

g_i

< 5>

$$\sum_{j=1}^{N(t)} g_j \leq 1 - \Delta, \quad \text{where} \quad \Delta = \max_i \left(\frac{\eta_o W g_i}{h_i p_i} \right)$$

h_i , $1 - \Delta$, Δ ,
 h_i ,

(143) < 3>, < 4>, < 5>
 3
 2

QoS

2 IP , TOS (100) , (120) (12
 (130) (130) (130)
 (140)가 3
 (140)

(141) 200 (141) 210 < 1> (200).
 (141) 220 < 2> (141) 23
 210 0 < 2>
 220 230 240 (141)
 (142) (143) 250 (1
 42) < 4> , 260 < 5>

cking) , (143) 가 (pa
, , 가 , 가
, (throughput) , 가
.
(143) 270 , 280
280 , (143) 290
, 가 가 가 , 290
, 가 가 가 (143) 290 가
가 290 (143) 310 ,
가 (142) ,
(143) 320 , 280 ,
가 ,
2 ,
.

(57)
1. 가 ,
,
가
,
가 ,
2. 1 ,
< 6>

6

$$F\ T_i^k = F\ T_i^{k-1} * \left(\frac{priority \times a + 1}{priority + 1} \right) + \frac{L_i^k}{\Phi_i}$$

< 6> , $F\ T_i^k$ i k , L_i^k , Φ_i
가 (weight) , α .

3.

가 , , ,

가 가

.

4.

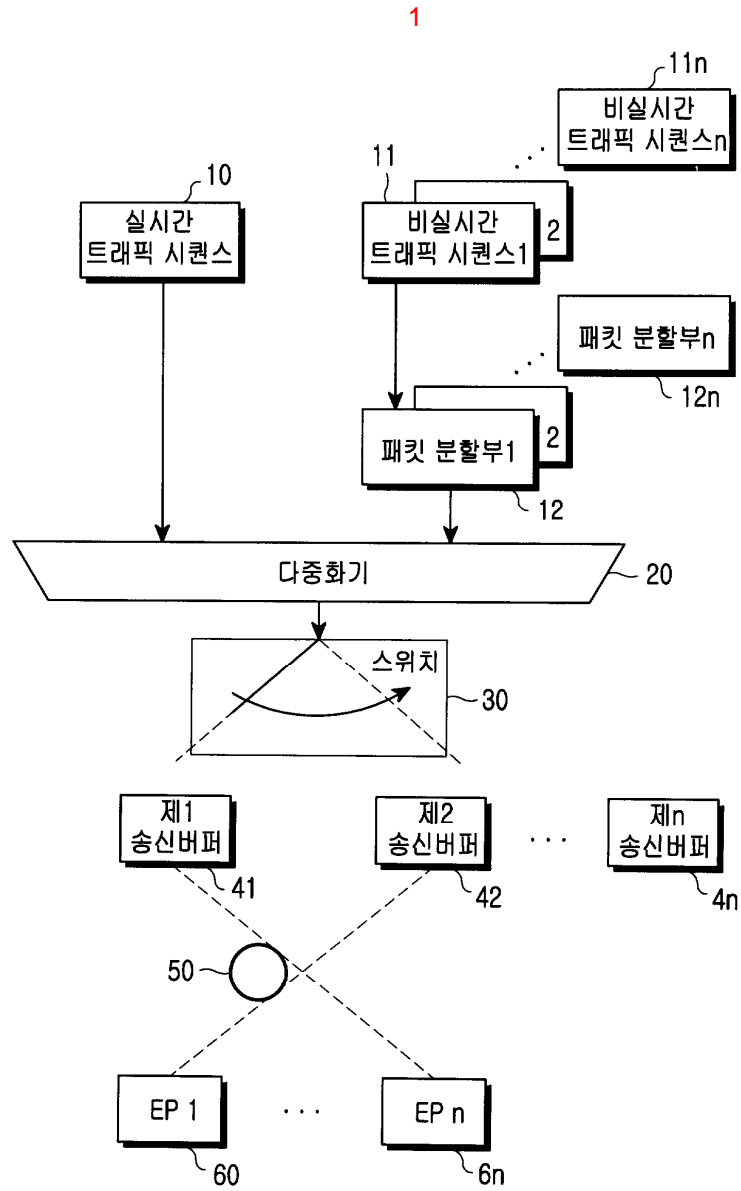
3 ,

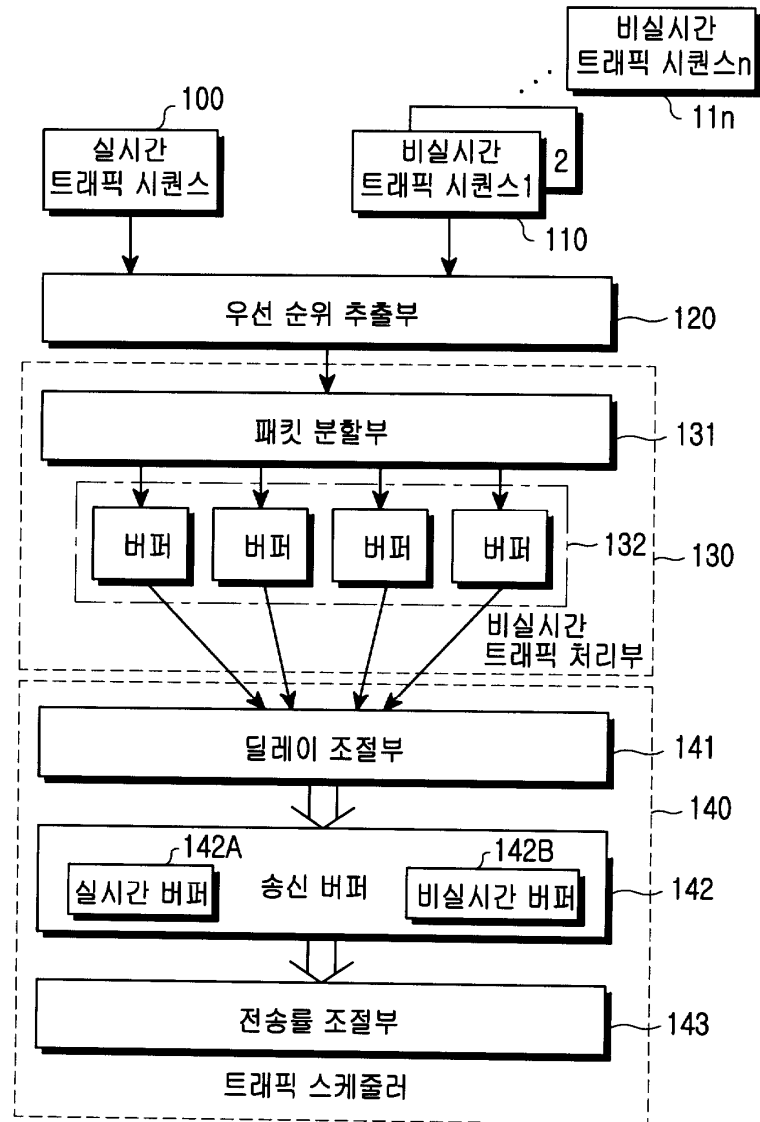
< 7> .

7

$$F\ T_i^k = F\ T_i^{k-1} * \left(\frac{priority \times a + 1}{priority + 1} \right) + \frac{L_i^k}{\Phi_i}$$

< 7> , $F\ T_i^k$ i k , L_i^k , Φ_i
가 (weight) , α .





3

