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(22) 2001 06 21

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(72) 104 1504
() 111 204
101 202
1 1203
3 18 701

(74)
:

(54) ,

, HD - TV(High Definition TV) (Multichannel Stream) (Navigation) , SD - TV(Standard Definition TV) (HOB) , (HD - DVD)

1

(HD - DVD),

1

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6

10 : 11 :

12 : 13 :

14 : 100 :

Definition TV)
m)

(HD - DVD: High Density Digital Versatile Disc)
SD - TV(Standard Definition TV)

, HD - TV(High
(Multichannel Strea

가 , / , MPEG - 2(Moving Picture Exper
 ts Group - 2) , 가 . , ,
 , , / , , MPEG - 2 (Transport
 Stream) .
 DVD) MPEG - 2 , (DVD - R: DVD Recorder)가 (,
 , (DVD - R) , , 32
 (VOBU: Video Object Unit) , ,
 (VOB: Video Object) .
 , (DVD) , (VOBU) ,
 (VOB) (Navigation) 가 ,
 (Access)가 가 .
 , (DVD) , (HD - DVD) ,
 (HD - VDR) , HD - TV , SD - TV RF
 (HD - DVD)

D - TV , SD - TV , (HD - DVD) , H
 (HOB) , ,

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가 2 1

1
RF (HD - VDR) , HD - TV SD - TV RF
(10); (11);

(HOB)
 (12); (12)
 (HD - DVD) (100) (Pit)
 13); (14)가

(10) HD - TV SD - TV
 RF (11) RF
 RF 2 RF 2
 (12) (Demuxing) 1 2

(12) (TP: Transport Packet)
 (PID: Packet ID) 1 2
 I - (Intra - Picture)

(HOB)

3 1
 (HOB #1) (12) (11) 1
 1 2

(12) (HOB #1) 2 (HOB #2)
 (PGCI: Program Chain Information)
 (PGCI) 1 (HOB #1)
 2 (Cell #2)가 (PG #1) 1 (Cell #1) 2

1 (HOB #1) 1 (HOB #1: HOB Information #1)
 1 2 (MAPL for Channel 1) 2
 (MAPL for Channel 2)가

3
 가
 가

(Single)

4 7 , 1
 I #1 #n), (PGCI) , (PGC_GI) , (PG
 (CI_SRP #1 #n) (CI #1 #n)가 ,
 (PGI) , 4 (PG_TY) (C_Ns)가 ,

(PG_TY) , 5 , 8
 (PG) (Erase) 가 1 (Protect) ,
 3 (Channel_Ns)가 ,
 3 (Channel_Ns) , '010b' 1 (PG #1) , 3
 1 (PG #1) 2 가 (C_Ns) , 2

(CI) , 4 (C_TY), (HO
 BI_SRPN), (PTMAPN: Presentation MAP Number), (C_V_S_PTM)
 (C_V_E_PTM)가 , (C_TY) , 6 , 8
 (Cell) (Movie Cell) 2
 (C_TY1) , 3 (C_TY1) , 1 (C_TY1)
 C_CH_N)가 , 3 , 2 (C_CH_N) , 1 2
 PG #1) 1 '00b'가 , 3 가

(CI) (HOBI_SRPN)
 (HOBI) , 7 (HOBI_GI) ,
 (PTMAP_SRP #1 #n), 가(PTMAPI #1 #n)가 ,
 (HOBI_GI) , (HOB_TY), (HOB_REC_TM),
 (HOB_V_S_PTM), (HOB_V_E_PTM),
 (PTMAP_Ns) i (PTMAP_SA #i)가 .

(PTMAPI) , (PTMAP_GI) , (H
 OBU_ENT #1 #n)가 , (V_PID) (A_PID), (HOBI_STIN),
 (HOBU_ENT_Ns), (PTMAP_S_PTM) (P
 TMAP_E_PTM)가 .

(PGCI) (PGI) (CI),
 (HOBI) (PTMAPI) , 3 , (P
 (HOB #1) (PG #1) , (P

G #1) (Cell #1, Cell #2) (PTMAPI)

8 , 2 (12) (11)
 , , 1 2 (HOB #1) (HOB #2)
 , 1 (HOB #1) 2 (HOB #2)
 (PGCI)

(PGCI) , 1 (HOB #1) , 1
 2 1 (PG #1) , 1 (C
 ell #1)가 , 1 (HOB #1) 1 (HOB #1) ,
 1 1 (MAPL for Channel 1) 2 (MAPL for Chann
 el 2)가 .

(HOB #1)
 (Cell #1) , 1
 2 1 2 (PG #1) 가 .
 , 4 7 (PGI) (PG_T
 Y) , 2 3 (Chann
 el_Ns) '010b'가 , 2 (C_Ns) , 2 1
 (PG #1) 1 가 .

(Cell #1) (C_TY) , (Cell) (Movie C
 ell) 2 (C_TY1) , (P
 GCI) 3 (C_CH_N)가 , (HOB #1)
 (PTMAPI) (PGI) (CI), (HOB #1)

(HOB #1) (PG #1)
 (PTMAPI) (PG #1) , 1 (Cell #1) , (PG #1)
 2

9 , 3 (12) (11)
 , , 1 2 (HOB #1) (HOB #2)
 , 1 (HOB #1) 2 (HOB #2)
 (PGCI)

, 2 (PGCI) 1 (HOB #1) 1 2 , 1
 1 (HOB #1) 1 (PG #1) 2 (PG #2), 1 2
 1 (Cell #1) 2 (Cell #2)가 ,
 1 (HOB #1) 1 (HOB #1) , 1 2
 1 (MAPL for Channel 1) 2 (MAPL for Channel 2)가

, 1 (HOB #1)
 #1) 2 (Cell #2) , 1 2 (PG #1, PG #2) 1 (Cell
 2 가

, 1 (PG #1) 2 (PG #2) (PGI) , 1
 가 , (PG_TY) , 1 2 , 1
 1 (C_Ns) , 1 3 (Channel_Ns) '001b'가 ,
 1 가 1 (PG #1) 2 (PG #2)

, 1 2 (Cell #1, Cell #2) (C_TY) , (Cell)
 (Movie Cell) 2 (C_TY1) ,
 (PGCI) 3 (C_CH_N)가 ,
 (PTMAPI) (PGI) (CI), (HOB I)

, (HOB #1) (PG #1, PG #2)
 , (Cell #1, Cell #2) ,
 (PTMAPI) , 1 2

10 , 4
 , (12) , (11)
 , 1 (HOB #1) 2 (HOB #2) (HOB #1)
 (PGCI) 1

, (PGCI) , 1 (HOB #1) 1 , 1 2
 (Cell #1) 2 (Cell #2), (PG #1), 1 1
 , 1 2 (Cell #3)가 , 1 (Cell #1)
 , 1 2 (Cell #2) , 1 , 3
 1 (Cell #3) , 2 , 1 (HOB #1)
 1 (HOB #1) , 1 2 , 3 1

2 (MAPL for Channel 1 & 2) 1 (MAPL for Channel 1), 2
(MAPL for Channel 2)가 .

, 1 (HOB #1)
, 1 2 1, 2 3 (Cell #1, #2, #3)
, 1 2 , 2

, 1 (PG #1) (PGI) , 가 ,
(PG_TY) , 1 2 (C_Ns) , 1 3 (PG #
1) (Channel_Ns) '010b'가 , (C_Ns) , 1 (PG #
3 가 .

, 1, 2 3 (Cell #1, #2, #3) (C_TY) , (C
ell) (Movie Cell) 2 (C_TY1) , (C
3 (C_CH_N)가 , ,
(PGCI) (PGI) (CI), (

HOBI) (PTMAPI) .

, (HOB #1) (PG #1)
, (PG #1) 3 (Cell #1, Cell #2, Cell #3) ,
(PTMAPI) , 1 2

11 , 5
, , (12) , (11)
, 1 (HOB #1) 2 (HOB #2) (HOB #1)
(PGCI) 1

, (PGCI) , 1 (HOB #1) 1 , 1 2
1 (PG #1), , 1 1
(Cell #1)가 , 1 (Cell #1) , 1 2 , 1
(HOBI #1) , 1 (MAPL for Channel 1 &
2) 1 (MAPL for Channel 1), 2 (MAPL for Channel 2)가

, 1 (HOB #1)
, 2 1 , 1 (PG #1) 1 (Cell #1) , 1
2 , 1 , 2

1 (PG #1) (PGI) , 가 ,
 (PG_TY) , 1 2 , 3
 (Channel_Ns) '010b'가 (C_Ns) , 1 (PG #1)
 1 가 .

1 (Cell #1) (C_TY) , (Cell) (Mo
 vie Cell) 2 (C_TY1) ,
 3 (C_CH_N)가 , ,
 (PGCI) (PGI) (CI), (HOBI)
 (PTMAPI) .

(HOB #1) (PG #1)
 (PTMAPI) (PG #1) , 1 (Cell #1) , (PG #1)
 , 1 2 .

12 , 6 (12) , (11)
 , 1 2 (HOB #1)
 , 1 (HOB #1) 2 (HOB #2) (HOB #1)
 (PGCI) .

(PGCI) , 1 (HOB #1) 1 , 1 2
 1 (PG #1) , 1 2 (PG #2), ,
 2 3 (PG #3) , 1
 1 (Cell #1) 2 (Cell #2), 3
 (Cell #3)가 , 1 (HOB #1) 1 (HOBI #1) ,
 1 2 , 3 1 2 (MAPL for Chan
 nel 1 & 2) 1 (MAPL for Channel 1), 2 (MAPL for Channel 2)
 가 .

1 (HOB #1)
 , 1 2 3 (PG #1, #2, #3) 1, 2
 3 (Cell #1, #2, #3) , 1 2 , 1
 , 2 .

1 (PG #1) (PGI) , 가 ,
 (PG_TY) , 1 2 , 3
 (Channel_Ns) '010b'가 (C_Ns) , 1 (PG #1)
 1 가 .

2 3 (PG #2, PG #3) (PGI) (PG_T
 Y) , 2 3 1 , 3 (Ch
 annel_Ns) '001b'가 , (C_Ns) , 2 3 (PG #2, #3)
 1 가 .

ell) , 1, 2 3 (Cell #1, #2, #3) (C_TY) , (C
 (Movie Cell) 2 (C_TY1) ,
 3 (C_CH_N)가 , ,
 (PGCI) (PGI) (CI), (

HOB I)

(PTMAPI)

, , (HOB #1) (PG #1, #2, #3)
 (PTMAPI) 3 (Cell #1, Cell #2, Cell #3) ,
 , 1 2

가 . , , , , , 가

(HD - DVD) , HD - TV SD - TV , ,
 (HOB) , ,

(57)

1.

1 ;

2 ;

3

2.

1 ;

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3

3.

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4.

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5.

1 ;

2 ; ,

, 3 , .

6.

1 ;

, , 2 ; ,

, 3 , .

7.

1 6 ,

, (PG_TY) , (C_Ns)가 .

8.

1 6 ,
 , (C_TY) ,
 (HOBI_SRPN)가 .
 9.
 1 6 ,
 , (HOBI) (PTMAPI)
 .
 10.
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 , , .
 11.
 10 ,
 , , , .
 12.
 10 ,
 , , , .
 13.
 10 ,
 , , , , , .
 14.
 10 ,

15.

10

16.

10

17.

11

16

(C_Ns)가

(PG_TY) ,

18.

11

16

(HOBI_SRPN)가

(C_TY) ,

19.

11

16

(HOBI)

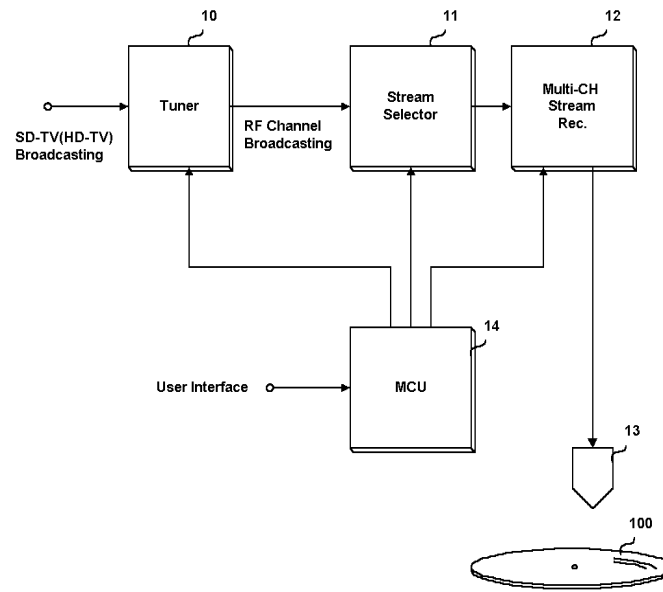
(PTMAPI)

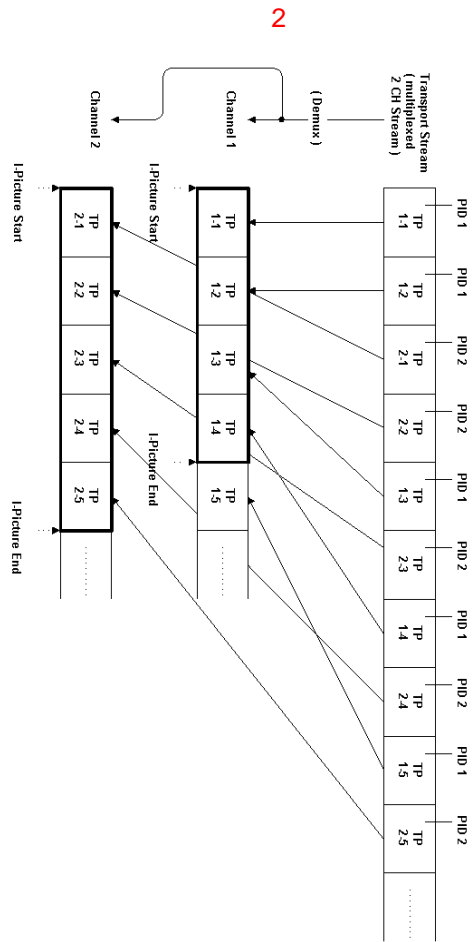
20.

1

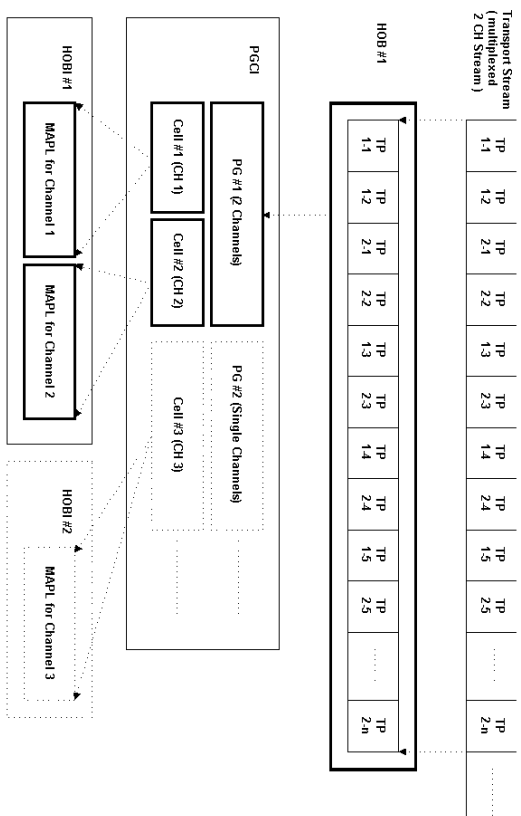
가 2

1



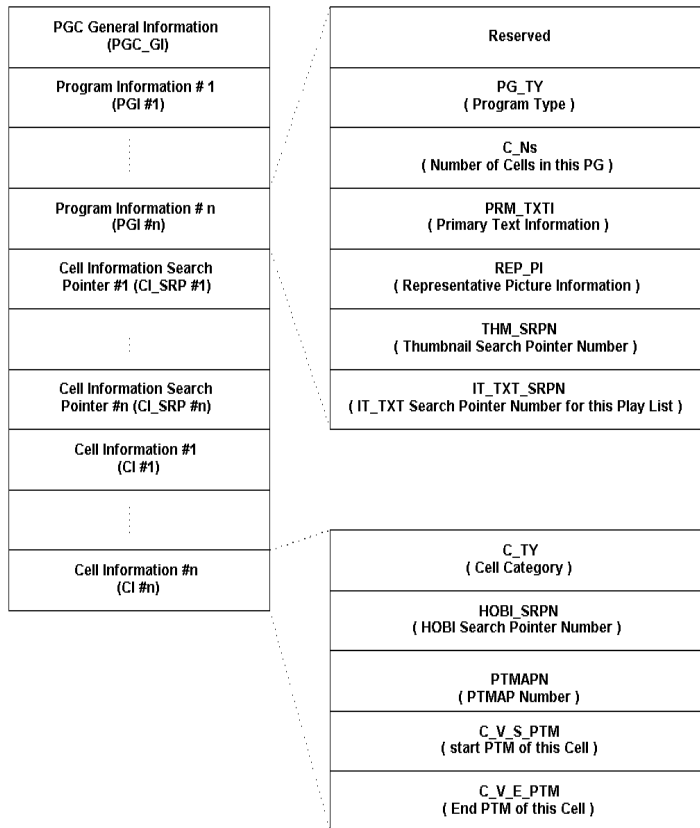


3



4

PGC Information # i (PGCI # i)



5

PG_TY

	b7	b6	b5	b4	b3	b2	b1	b0
Protect	Reserved					Channel_Ns		

Protect ----- 0b : This PG is not in protected state

1b : This PG is in protected state

Channel_Ns ----- Number of broadcast channels referred by this PG

6

C_TY

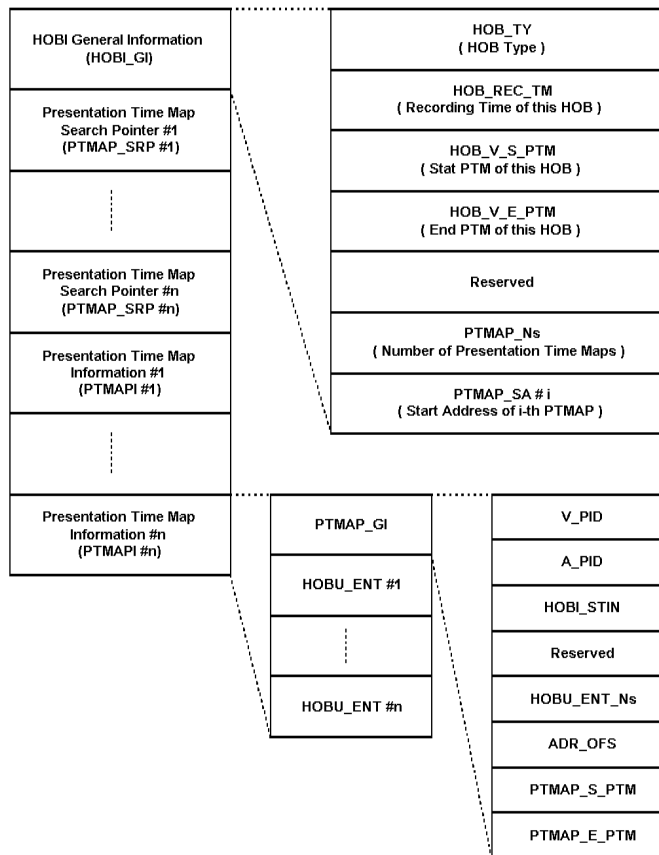
b7	b6	b5	b4	b3	b2	b1	b0
C_TY1		Reserved			C_CH_N		

C_TY1 ----- '00b' shall be described for Movie Cell

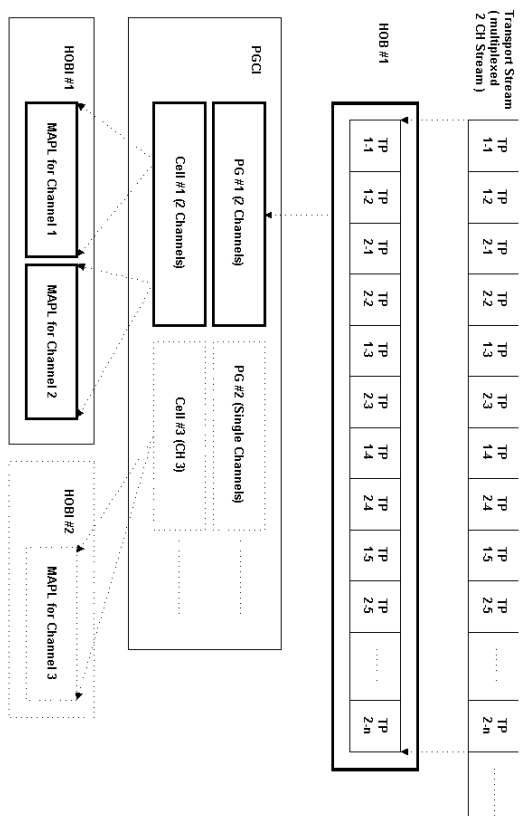
C_CH_N----- broadcast channels number referred by this Cell

7

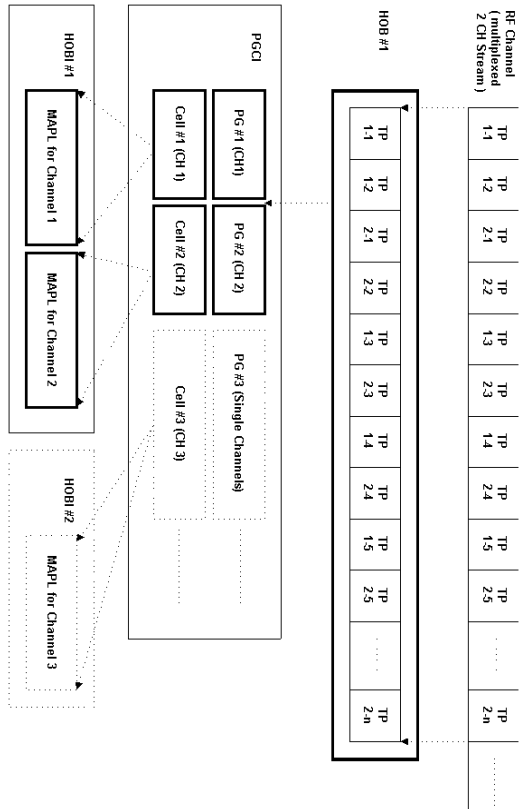
HOB Information # I (HOB I # I)



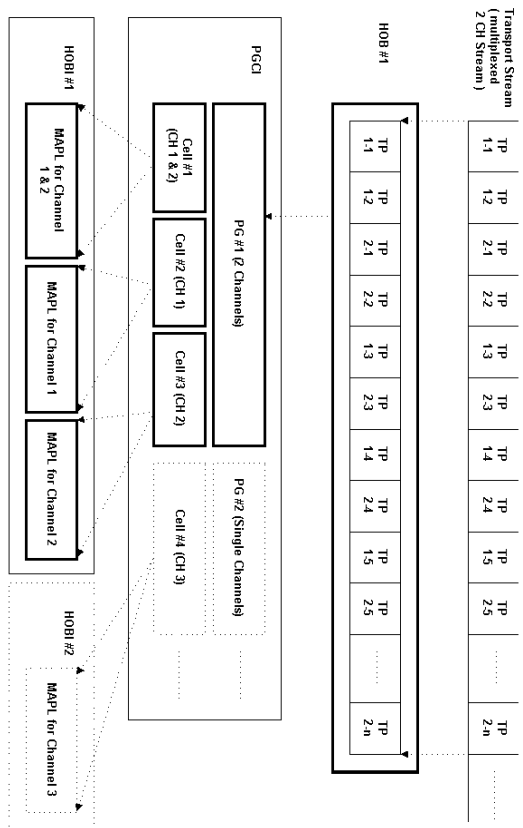
8



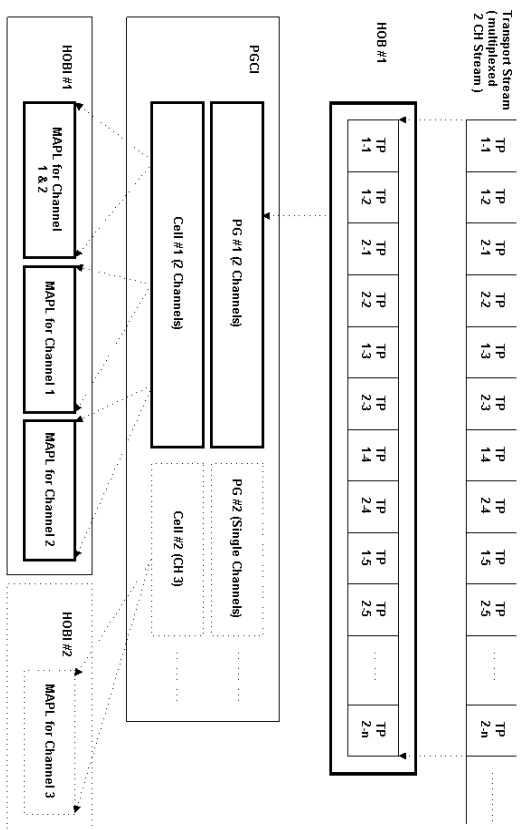
6



10



11



12

