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2004 12 08

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10-2004-0092286  
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(73) 726 (6/9) 3 306-101

(72) 233 101

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1 78-10 3

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(74)  
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(54)

(extensible markup language)  
가

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3

, , COPS, PIB, XML

1  
 2  
 3 XML PIB  
 4 XML PIB  
 5 XML PIB  
 6 XML PIB  
 7 XML PIB  
 \* \*  
 100 : 110 :  
 120 : 130 :  
 140 : 150 :

(extensible markup language)

가

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(policy based network management)

COPS(common open policy service) COPS-PR(c  
 ommon open policy service policy provisioning)  
 COPS-PR 가 COPS-PR  
 PIB(policy information base)  
 1 (130)  
 , PEP(policy enforcement point or device)(120) (100) PDP(  
 policy decision point)(110)  
 PDP(110) (150) PEP(120) PEP(120)  
 (150) PDP(110)  
 2 , PIB(140) PRC(provisioning class or policy rule class)(210) PRI(provisioning inst  
 ances or policy rule instances)(220) PRC(210)  
 PRI(220) , PIB(140) PRI(220) 가  
 가 COPS-PR PIB 가 가  
 가 가 PIB 가 가  
 가 가

가



, PEP(340) PEP  
(COPS-PR) (342), (client handler)(344), (COPS-PR)  
(346), XML (348), (PIB) (350)  
COPS-PR (342) PDP COPS-PR (336) (344)  
가  
COPS-PR (346) COPS-PR  
XML (348) XML XML (372) PRI(provisi  
oning instances) 가 (372) P  
RC(provisioning class) 가  
(PIB) (372) PDP  
4 XML PIB  
4 , DTD(document type definition) XML PIB . DTD PIB, T  
able, Entrys, Prid, Objects (element) , XML  
. PIB 1 (entry)  
1 Prid , Prid (object)  
Prid  
5 XML PIB  
5 (S500).  
(S502),  
(S504). (S506).  
(S508), 가 (S510).  
(S512).  
PDP PEP (S514). , PEP CO  
PDP PS-PR COPS COPS-PR PDP PIB  
PIB XML PIB PRI (S516). XML PIB PRI , PEP  
PDP COPS (S518). , XML PIB PRI (S520). , XML PIB , PEP  
6 (report) PDP  
XML PIB  
XML PIB PRC 가 가 PRC  
가 . PIB PIB  
6 XML PIB (S600), PDP PEP  
(S602). , PEP가 PDP (S604), PDP PEP  
(S606). PEP PIB XML PIB PRC (S608). , PEP PDP C  
OPS (S610).  
, PDP PEP  
. PEP가 PDP , PDP  
PEP . PDP PIB , PEP PDP COPS PIB  
XML PIB PRC  
, PEP PDP  
가 가  
가 가  
가

, 가 가 가 .

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1.

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2.

1 , 가

3.

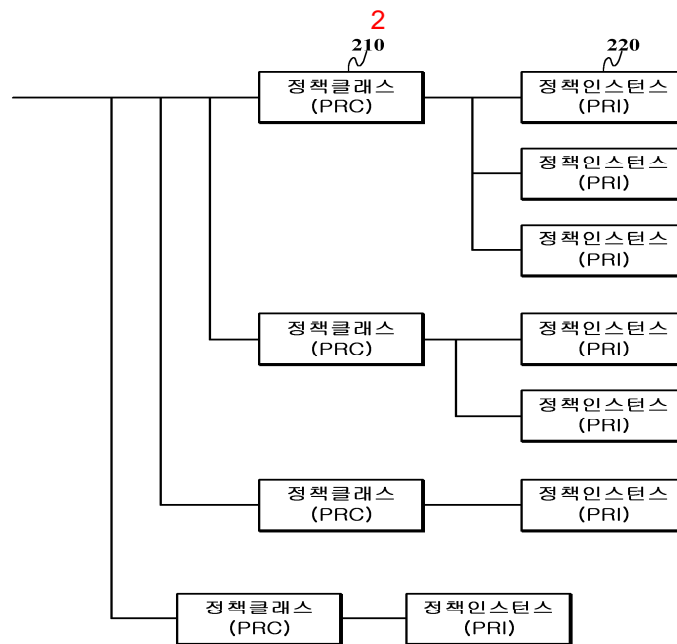
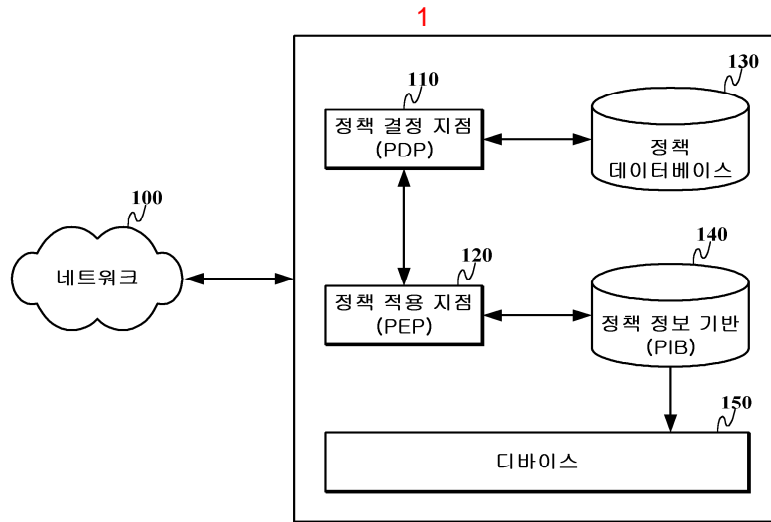
1 , ,

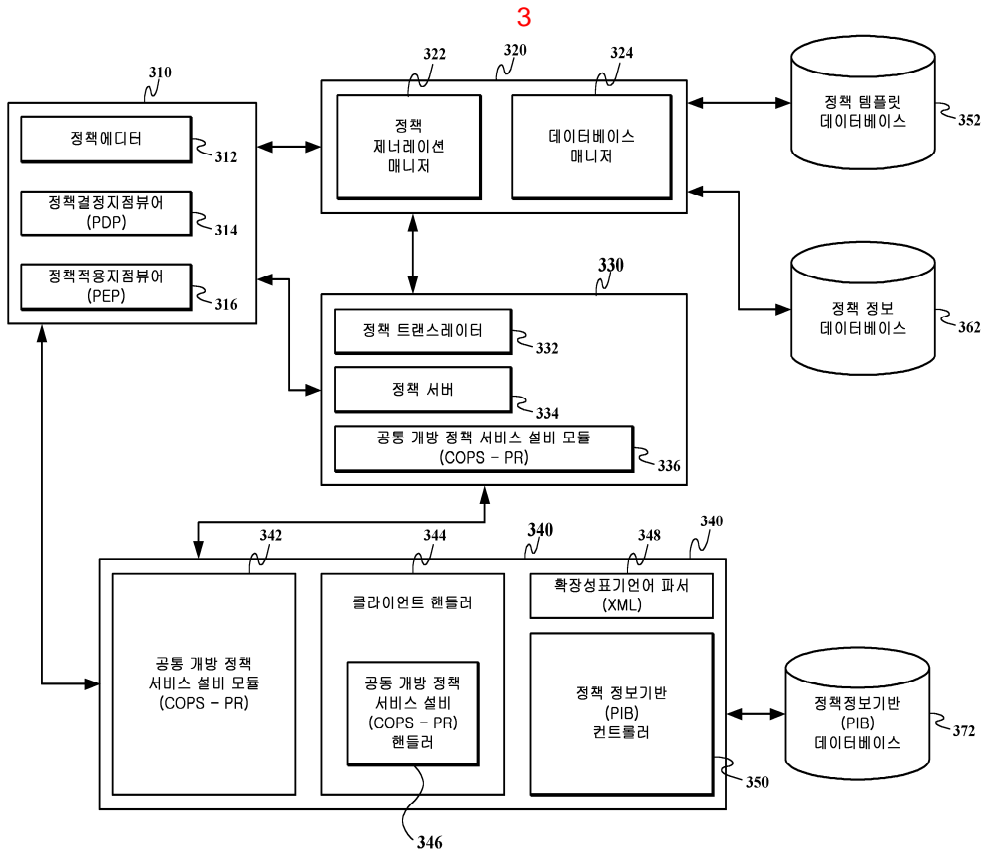
4.

가 1 ; 가 가  
2 ; 가  
3 ; 가  
4

5.

4 가 ,



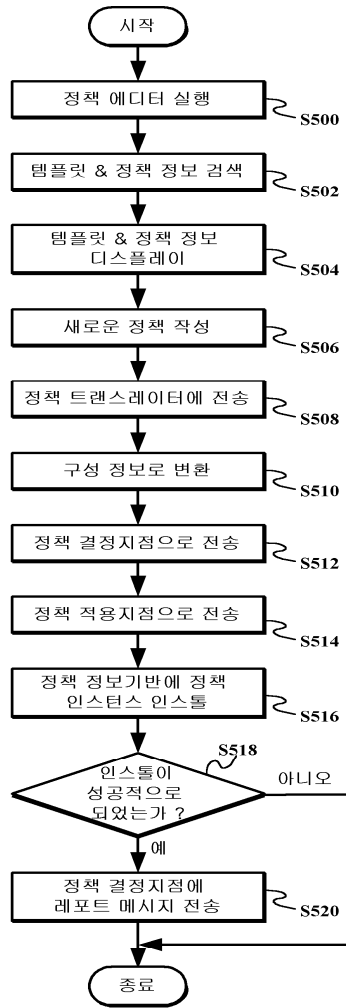


**4**

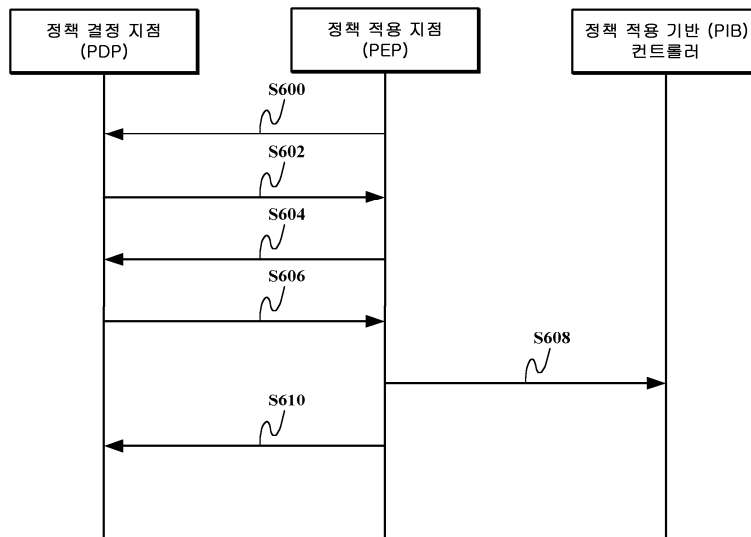
```

< ?xml version= "1.0" encoding= "UTF-8"? >
< !ELEMENT PIB (Tables+) >
< !ATTLIST PIB oid CDATA #FIXED "1.3.6.1" >
< !ELEMENT Tables (Entrys) >
< !ATTLIST Tables name CDATA #REQUIRED
oid CDATA #REQUIRED method CDATA
#REQUIRED >
< !ELEMENT Entrys (Prid+) >
< !ATTLIST Entrys name CDATA #REQUIRED
oid CDATA #REQUIRED >
< !ELEMENT Prid (Objects+) >
< !ATTLIST Prid SYNTAX CDATA #REQUIRED
ACCESSMODE CDATA #REQUIRED
index CDATA #REQUIRED
oid CDATA #REQUIRED >
< !ELEMENT Objects (#PCDATA) >
< !ATTLIST Objects
name CDATA #REQUIRED
SYNTAX CDATA #REQUIRED
ACCESSMODE CDATA #REQUIRED
oid CDATA #REQUIRED >
    
```

5



6





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