

1/20

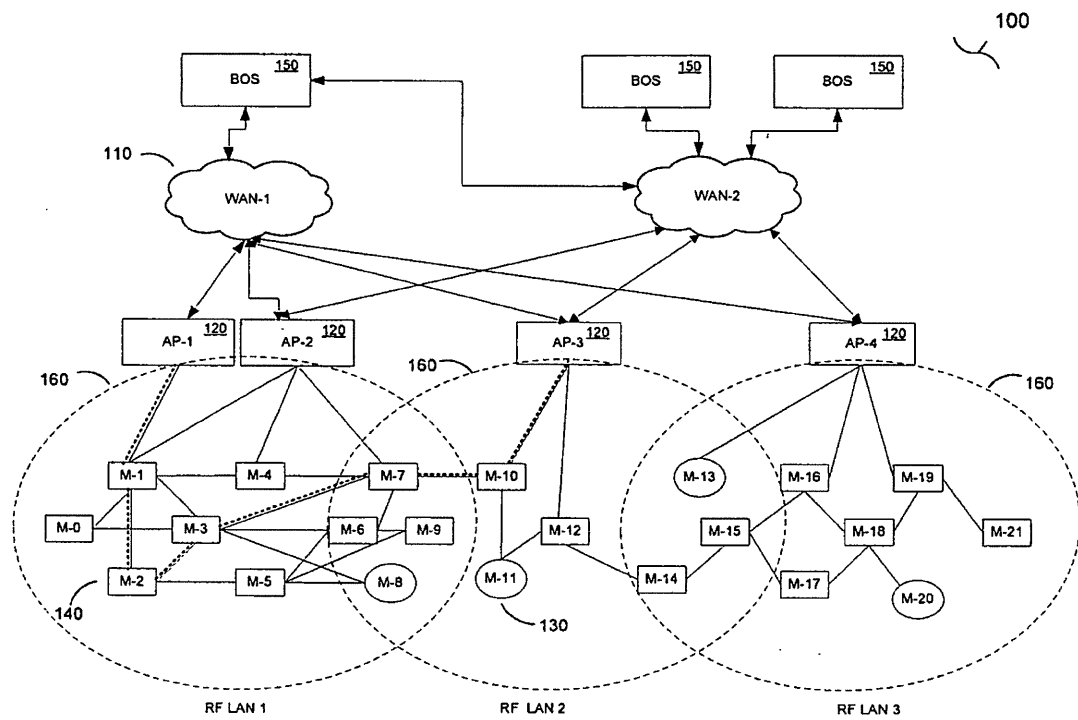


FIGURE 1A

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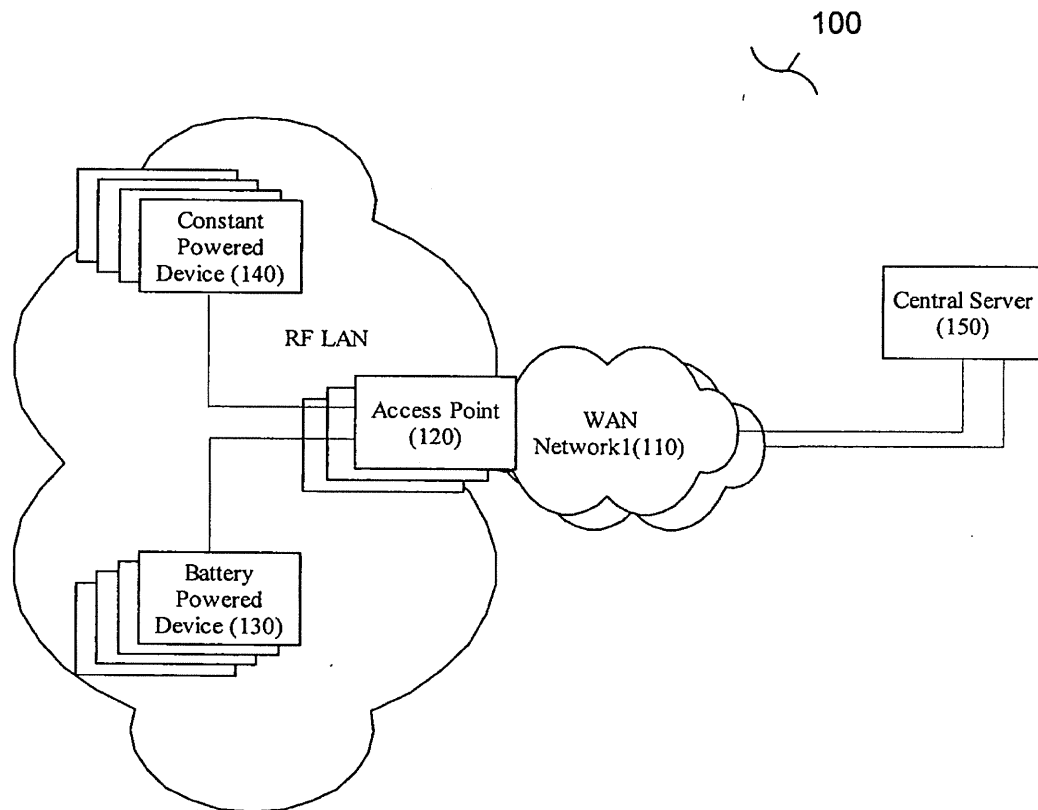


FIGURE 1B
(SPECIFIC NETWORK ELEMENTS SHOWN IN FIGURE 1A)

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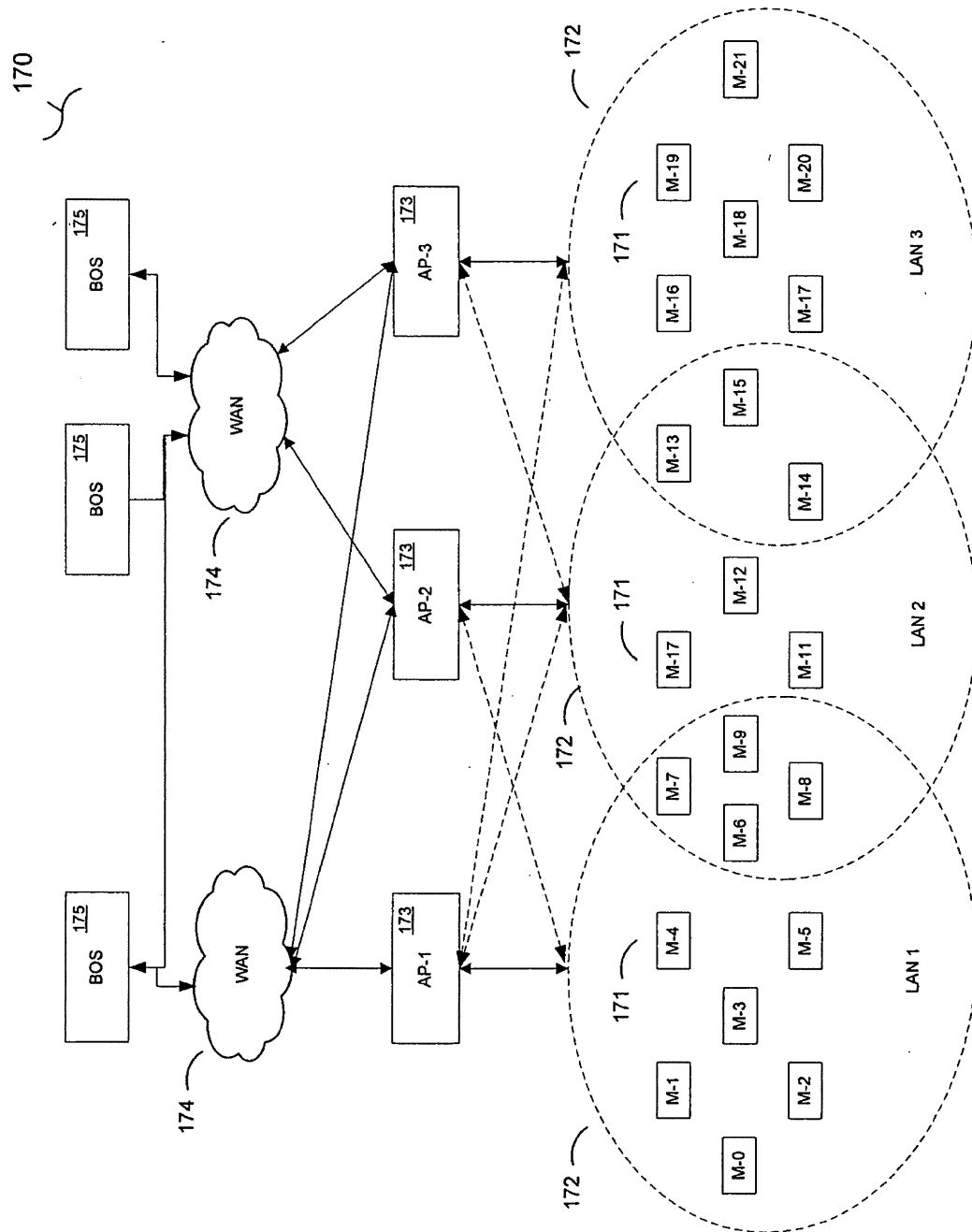


Figure 1C

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200

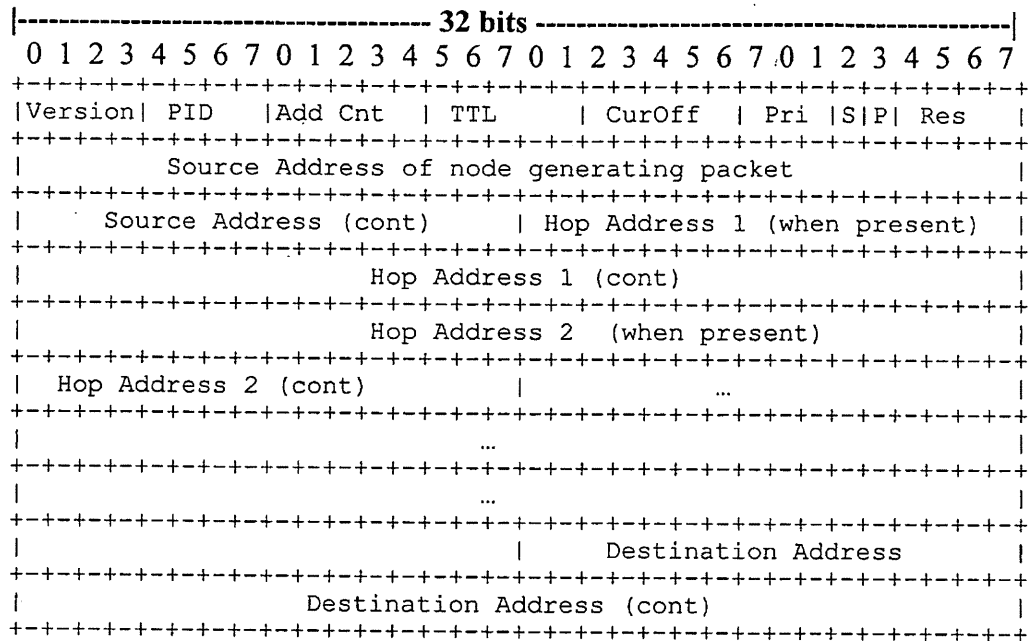


FIGURE 2

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300

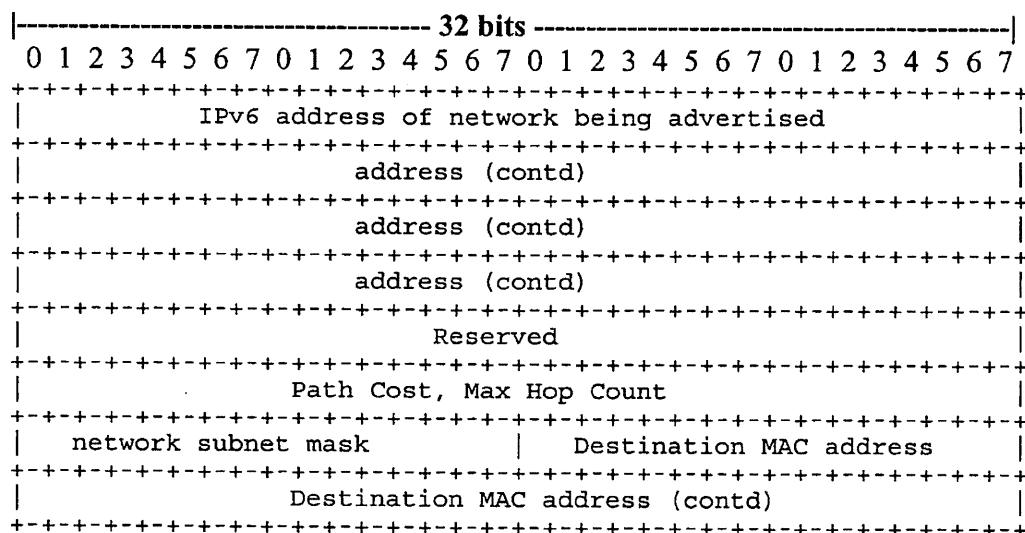


FIGURE 3

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400

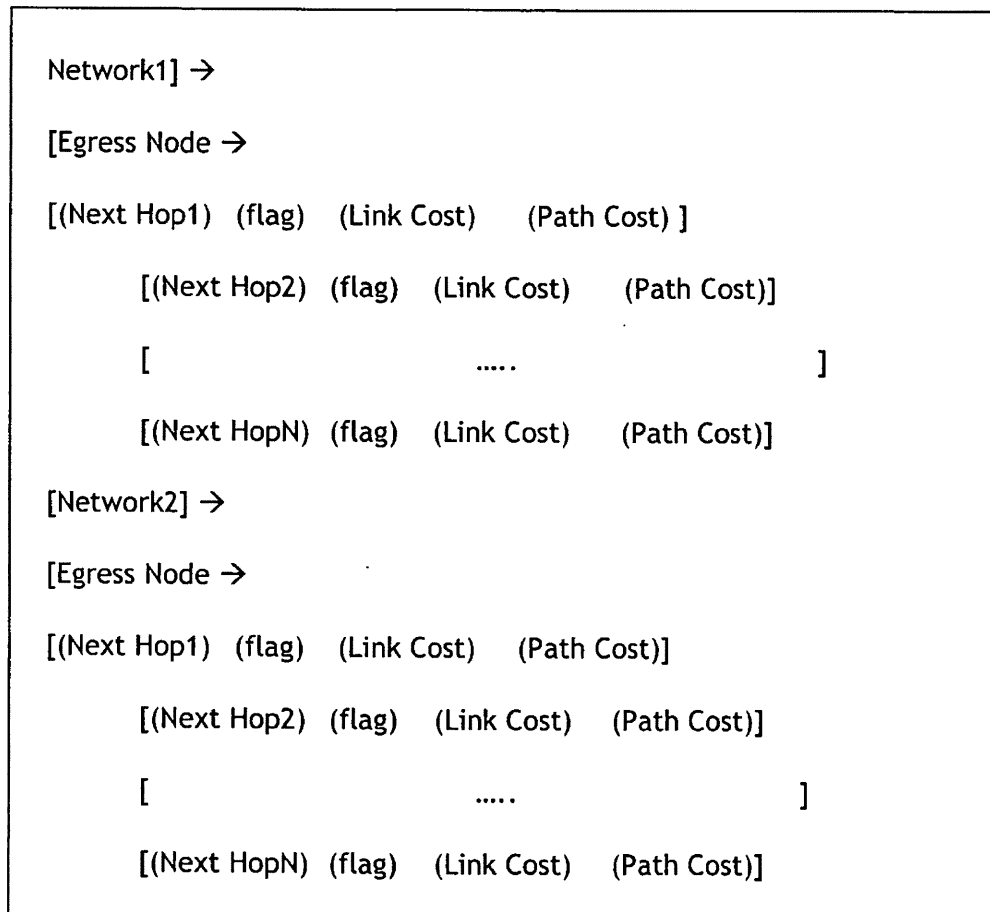


FIGURE 4

500

Destination Address	Type
Destination 1, Hop1, Hop2, ...HopN	Source-routed
Destination 2	Direct adjacency
Destination 3, Next Hop 1	Hop-by-hop
Destination 4, Hop1, Hop2, ...HopN	Source-routed
Destination 4, Next Hop	Hop-by-hop
Destination 4, Hop 5	Bread-crumb

FIGURE 5

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600

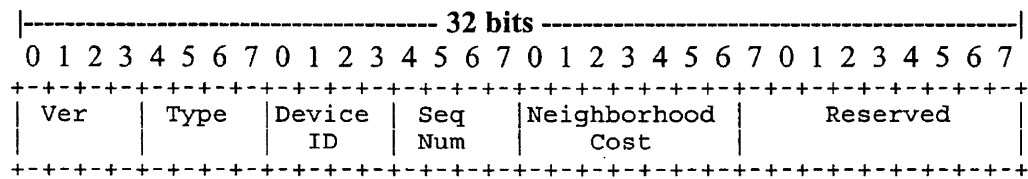


FIGURE 6

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700

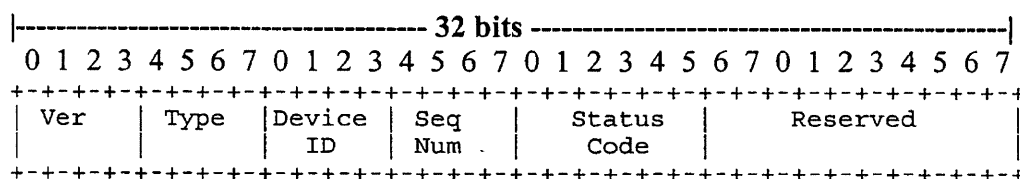


FIGURE 7

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800

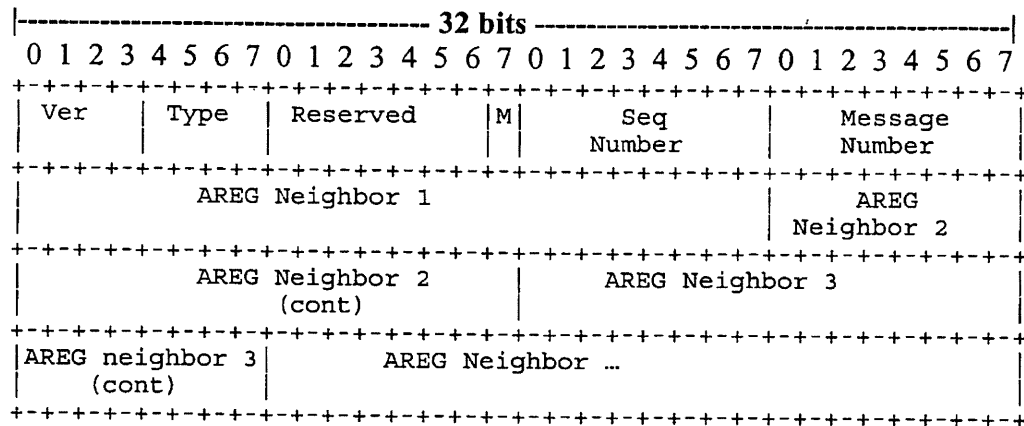


FIGURE 8

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900

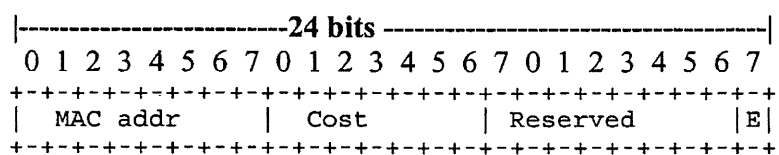


FIGURE 9

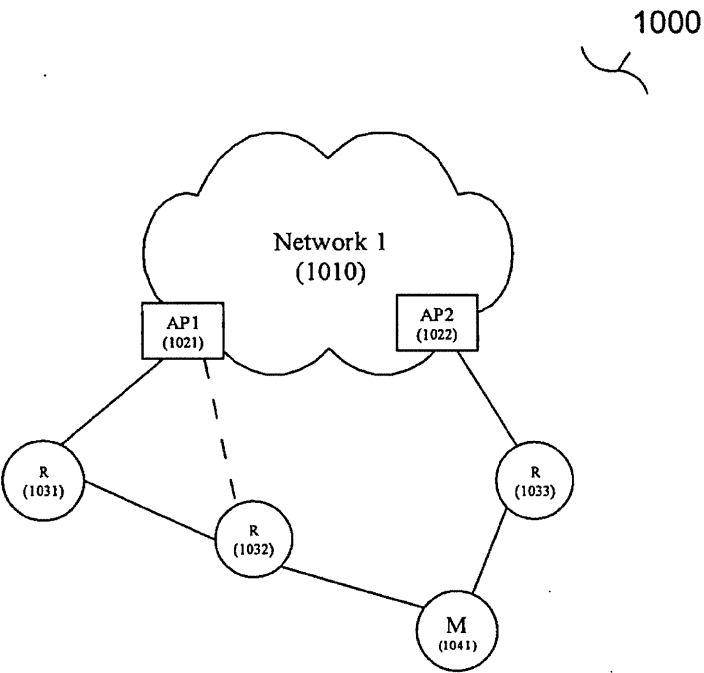


FIGURE 10

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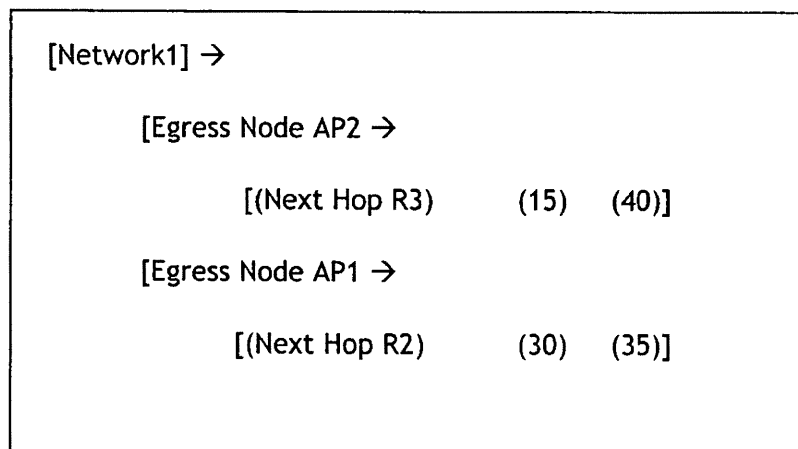
1100


FIGURE 11

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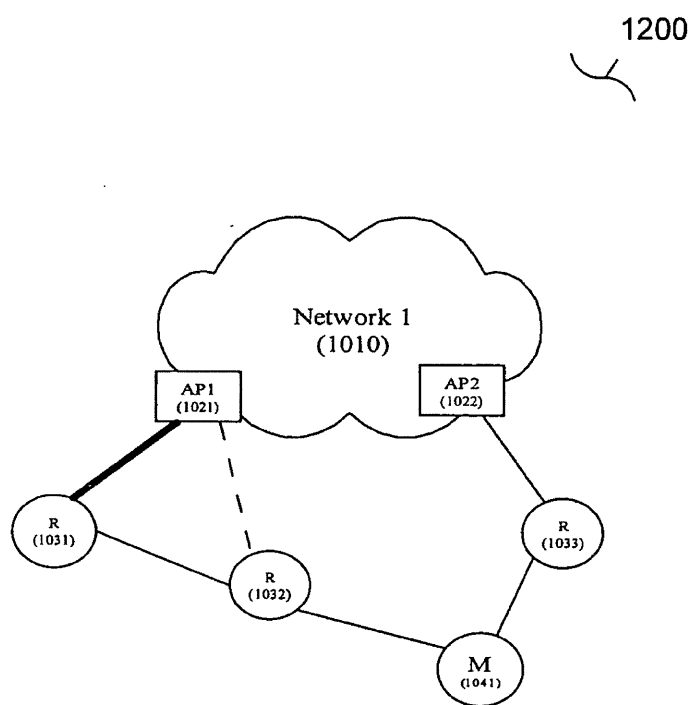


FIGURE 12

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1300

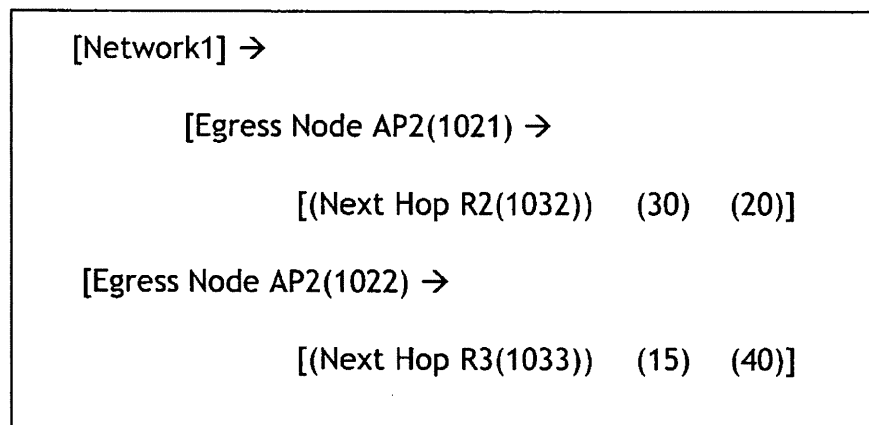


FIGURE 13

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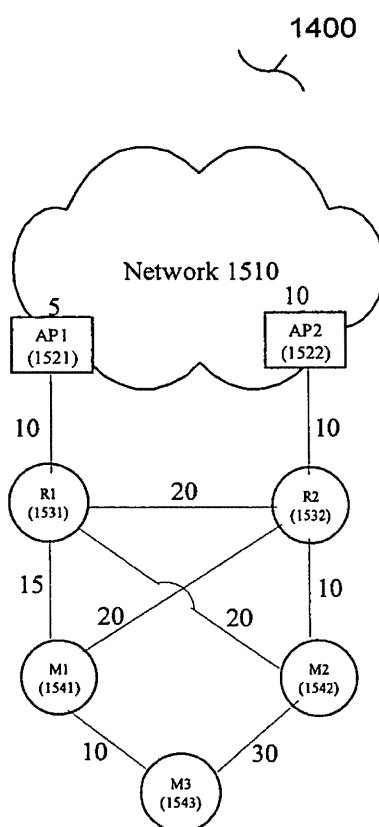


FIGURE 14

1500



	Network1 (1510)	AP1 (1521)	AP2 (1522)	R1(1531)	R2(1532)	M1(1541)	M2(1542)	M3(1543)
Network1(1510)		5	10					
AP1(1521)	5			10				
AP2(1522)	10				10			
R1(1531)		10			20	15	20	
R2(1532)			10	20		20	10	
M1(1541)				15	20			10
M2(1542)				20	10			30
M3(1543)						10	30	

FIGURE 15

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1600


Notation	Definition
Net1	Network1 (1510)
->	Route Advertisement e.g. AP1 -> R1 indicates AP1's advertisement to R1
NH	Next Hop
@ n	path cost of n
@ n , m	path cost of n, hop count of m
/	"through" e.g. Net1/AP1 indicates Network1 through AP1
RT	Routing Table

FIGURE 16

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FIGURE 17

1700

Step 1: AP1(1521), AP2(1522) come up AP1(1521) brings up Net1 @ 5 AP2(1522) brings up Net1 @ 10
Step 2: R1(1531) Boots AP1(1521) -> R1(1531) : Net1/AP1(1521) @ 5 R1(1531) adds Net1/AP1(1521) NH AP1(1521) @ 15 , 1 to RT
Step 3: R2(1532) Boots AP2(1522) -> R2(1532) : Net1/AP2(1522) NH AP2(1522) @ 10 , 1 R1(1531) -> R2(1532) : Net1/AP1(1521) NH R1(1531) @ 15 , 2 R2(1532) adds Net1/AP2(1522) NH AP2(1522) @ 20 , 1 to RT R2(1532) adds Net1/AP1(1521) NH R1(1531) @ 35 , 2 to RT R2(1532) -> R1(1531) : Net1/AP2(1522) NH R2(1532) @ 20 , 2 R1(1531) adds Net1/AP2(1522) NH R2(1532) @ 40 , 2 as second entry to RT -- Note the notion of sorting routes by preference.
Step 4: M1(1541) Boots R1(1531) -> M1(1541) : Net1/AP1(1521) NH R1(1531) 15 , 2 R1(1531) -> M1(1541) : Net1/AP2(1522) NH R1(1531) 40 , 3 R2(1532) -> M1(1541) : Net1/AP1(1521) NH R2(1532) 35 , 3 R2(1532) -> M1(1541) : Net1/AP2(1522) NH R2(1532) 20 , 2 M1(1541) adds Net1/AP1(1521) NH R1(1531) 30 , 2 to RT M1(1541) adds Net1/AP2(1522) NH R2(1532) 40 , 2 to RT M1(1541) adds Net1/AP2(1522) NH R1(1531) 55 , 3 to RT M1(1541) adds Net1/AP1(1521) NH R2(1532) 55 , 3 to RT
Step 5: M2(1542) Boots R1(1531) -> M2(1542) : Net1/AP1(1521) NH R1(1531) 15 , 2 R1(1531) -> M2(1542) : Net1/AP2(1522) NH R1(1531) 40 , 3 R2(1532) -> M2(1542) : Net1/AP1(1521) NH R2(1532) 35 , 3 R2(1532) -> M2(1542) : Net1/AP2(1522) NH R2(1532) 20 , 2 M2(1542) adds Net1/AP2(1522) NH R2(1532) 30 , 2 to RT M2(1542) adds Net1/AP1(1521) NH R1(1531) 35 , 2 to RT M2(1542) adds Net1/AP1(1521) NH R2(1532) 45 , 3 to RT M2(1542) adds Net1/AP2(1522) NH R1(1531) 60 , 3 to RT
Step 6: M3(1543) Boots M1(1541) -> M3(1543) : Net1/AP1(1521) NH M1(1541) 30 , 3 M1(1541) -> M3(1543) : Net1/AP2(1522) NH M1(1541) 40 , 3 M2(1542) -> M3(1543) : Net1/AP1(1521) NH M2(1542) 35 , 3 M2(1542) -> M3(1543) : Net1/AP2(1522) NH M2(1542) 30 , 3 M3(1543) adds : Net1/AP1(1521) NH M1(1541) 40 , 3 to RT M3(1543) adds : Net1/AP2(1522) NH M1(1541) 50 , 3 to RT M3(1543) adds : Net1/AP2(1522) NH M2(1542) 60 , 3 to RT M3(1543) adds : Net1/AP1(1521) NH M2(1542) 65 , 3 to RT

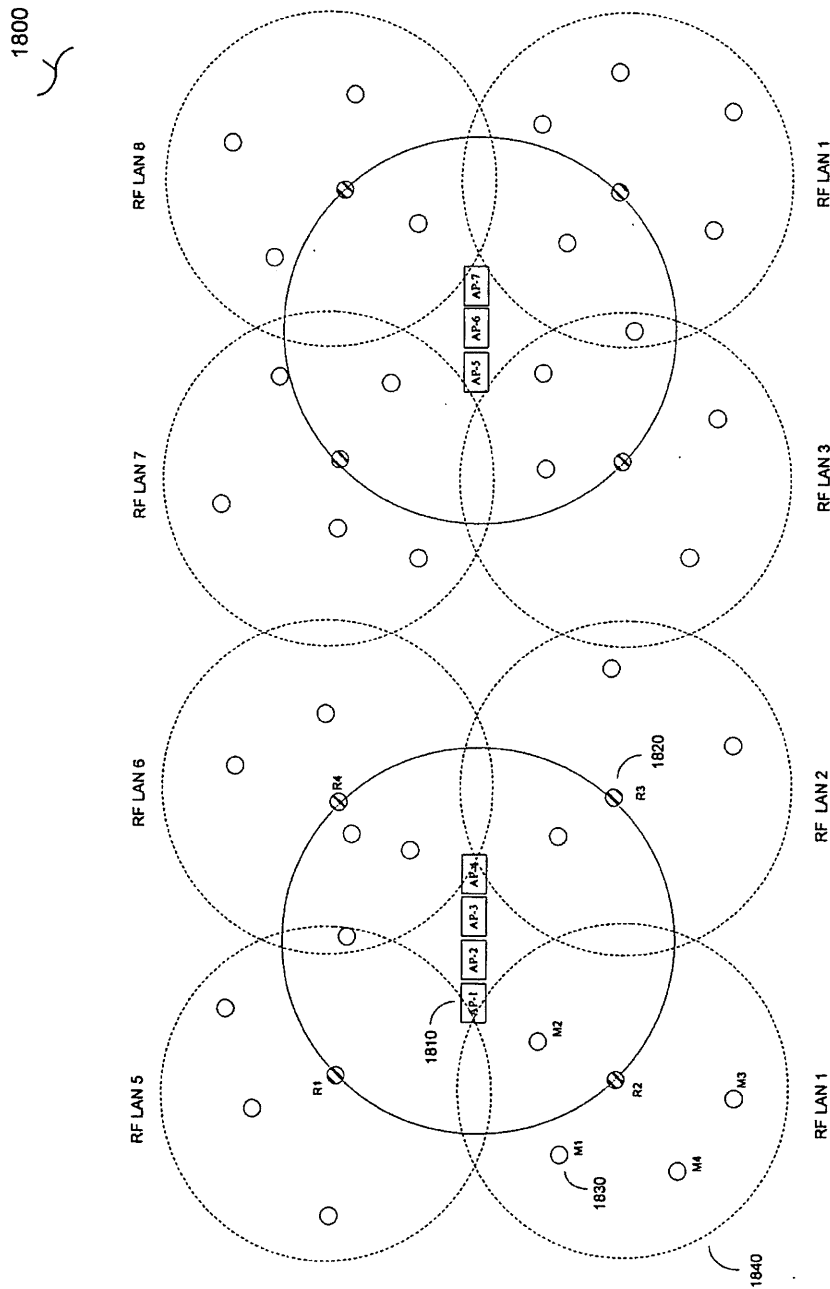


Figure 18