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(54) Title: CONTINUOUS DATA OPTIMIZATION IN POSITIONING SYSTEM

AP	MAC address	RSS
1	00:11:93:0d:a9:50	-75
2	00:11:93:0d:ae:10	-83
3	00:0c:41:0c:24:1f	-86
4	00:11:93:0d:aa:d0	-85
5	00:06:25:e8:c4:bb	-87
6	00:40:96:34:a6:23	-85
7	00:11:93:1f:24:d0	-71
8	00:05:25:88:d3:55	-79
9	00:40:96:31:46:c6	-94

Access Point Evaluation: Data Flows

Observed APs compared against database

All observed Access Points 501

AP	MAC address	RSS	Status	Latitude	Longitude
1	00:11:93:0d:a9:50	-75	Known	42.67754	-71.24573
3	00:0c:41:0c:24:1f	-86	Known	42.67675	-71.24500
4	00:11:93:0d:aa:d0	-85	Known	42.67726	-71.24496
5	00:06:25:e8:c4:bb	-87	Known	42.67650	-71.24580
7	00:11:93:1f:24:d0	-71	Known	42.67745	-71.24540
9	00:40:96:31:46:c6	-94	Known	42.67777	-71.24510

Suspect Access Point 504

Bad data filtered

Known Access Points 502

AP	MAC address	RSS	Status	Latitude	Longitude
2	00:11:93:0d:ae:10	-83	New		
6	00:40:96:34:a6:23	-85	New		
8	00:05:25:88:d3:55	-79	New		

New access points added to database

Newly Found Access Points 503

(57) Abstract: Methods and systems of continuously optimizing data in WiFi positioning systems. For example, data is monitored to infer whether a WiFi access point has moved or is new. In this fashion, data is continuously optimized. Likewise, suspect data may be avoided when determining the position of the WiFi-enabled device using such a system.

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