

Wi-Fi SSID Overhead Calculator

VARIABLES:	
Beacon Data Rate (Mbps)	802.11g 6 Mbps
Beacon Frame Size (Bytes)	300
Beacon Interval (ms)	102.4

ASSUMPTIONS:
802.11b Long Preamble used for 1 Mbps; Short Preamble used for 2, 5.5, 11 Mbps
802.11g short slot time is assumed, with no 802.11b clients within range
WMM is enabled and beacons are transmitted using Best Effort AC

Amount of Overhead:	0-10% Low	10-20% Medium	20-50% High	>50% Very High
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Number of APs on Channel*	Number of SSIDs									
	1	2	3	4	5	6	7	8	9	10
1	0.45%	0.90%	1.35%	1.80%	2.25%	2.70%	3.15%	3.60%	4.05%	4.50%
2	0.90%	1.80%	2.70%	3.60%	4.50%	5.40%	6.30%	7.20%	8.10%	9.00%
3	1.35%	2.70%	4.05%	5.40%	6.75%	8.10%	9.45%	10.80%	12.16%	13.51%
4	1.80%	3.60%	5.40%	7.20%	9.00%	10.80%	12.61%	14.41%	16.21%	18.01%
5	2.25%	4.50%	6.75%	9.00%	11.25%	13.51%	15.76%	18.01%	20.26%	22.51%
6	2.70%	5.40%	8.10%	10.80%	13.51%	16.21%	18.91%	21.61%	24.31%	27.01%
7	3.15%	6.30%	9.45%	12.61%	15.76%	18.91%	22.06%	25.21%	28.36%	31.51%
8	3.60%	7.20%	10.80%	14.41%	18.01%	21.61%	25.21%	28.81%	32.41%	36.02%
9	4.05%	8.10%	12.16%	16.21%	20.26%	24.31%	28.36%	32.41%	36.47%	40.52%
10	4.50%	9.00%	13.51%	18.01%	22.51%	27.01%	31.51%	36.02%	40.52%	45.02%
11	4.95%	9.90%	14.86%	19.81%	24.76%	29.71%	34.67%	39.62%	44.57%	49.52%
12	5.40%	10.80%	16.21%	21.61%	27.01%	32.41%	37.82%	43.22%	48.62%	54.02%
13	5.85%	11.71%	17.56%	23.41%	29.26%	35.12%	40.97%	46.82%	52.67%	58.53%
14	6.30%	12.61%	18.91%	25.21%	31.51%	37.82%	44.12%	50.42%	56.72%	63.03%
15	6.75%	13.51%	20.26%	27.01%	33.76%	40.52%	47.27%	54.02%	60.78%	67.53%
16	7.20%	14.41%	21.61%	28.81%	36.02%	43.22%	50.42%	57.63%	64.83%	72.03%
17	7.65%	15.31%	22.96%	30.61%	38.27%	45.92%	53.57%	61.23%	68.88%	76.53%
18	8.10%	16.21%	24.31%	32.41%	40.52%	48.62%	56.72%	64.83%	72.93%	81.04%
19	8.55%	17.11%	25.66%	34.21%	42.77%	51.32%	59.88%	68.43%	76.98%	85.54%
20	9.00%	18.01%	27.01%	36.02%	45.02%	54.02%	63.03%	72.03%	81.04%	90.04%
21	9.45%	18.91%	28.36%	37.82%	47.27%	56.72%	66.18%	75.63%	85.09%	94.54%
22	9.90%	19.81%	29.71%	39.62%	49.52%	59.43%	69.33%	79.23%	89.14%	99.04%
23	10.35%	20.71%	31.06%	41.42%	51.77%	62.13%	72.48%	82.84%	93.19%	100.00%
24	10.80%	21.61%	32.41%	43.22%	54.02%	64.83%	75.63%	86.44%	97.24%	100.00%
25	11.25%	22.51%	33.76%	45.02%	56.27%	67.53%	78.78%	90.04%	100.00%	100.00%
26	11.71%	23.41%	35.12%	46.82%	58.53%	70.23%	81.94%	93.64%	100.00%	100.00%