

Result Table for Minimum RRT policy of WIFI Selection

| %Error = Math - Simulation /Math*100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Simulation | | | | | | | | | |
|---|-----------|--------|----|----|----|----|---------|------|-------|--------|---------|-----------|--------|--------------|---------|-----------|--------|-------------|---------|----------|--------|--------------|---------|----------|--------|-------------|--------------|----------|-----------------------|-------------|----------------|----------|-------------|--------|-------|--------|---|---|---|---|---|---|
| A simulation | RoundTrip | lambda | | | | | ETs [K] | Psim | Pmth1 | Error1 | ETs [K] | Psim | Pmth2 | Error2 | ETs [K] | Psim | Pmth3 | Error3 | ETs [K] | Psim | Pmth4 | Error4 | ETs [K] | Psim | Pmth5 | Error5 | MIN[ETs (K)] | I* | Pr[I* = MIN[ETs (K)]] | Best | Pbest(MAX[I*]) | I** | | | | | | | | | | |
| | | n1 | n2 | n3 | n4 | n5 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 |
| 10000 | 5 | 1 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 4 | 5 | 0.000277 | 0.0123 | 0.012140842 | 1.14% | 0.000211 | 0.064 | 0.06665748 | 3.86% | 0.000075 | 0.1635 | 0.16402492 | 0.32% | 0.000121 | 0.2935 | 0.297380762 | 1.30% | 0.000073 | 0.4667 | 0.459865298 | 1.49% | 0.000073 | 5 | 0.4667 | 5 | 0.4667 | | | | | | |
| 10000 | 5 | 1 | 5 | 5 | 5 | 5 | 1 | 2 | 3 | 4 | 5 | 0.000005 | 0.0029 | 0.0027706055 | 7.17% | 0.000134 | 0.0372 | 0.036306306 | 2.24% | 0.000001 | 0.1321 | 0.13267733 | 0.45% | 0.000152 | 0.2936 | 0.298821667 | 1.75% | 0.000145 | 0.5246 | 0.52938391 | 0.91% | 0.000071 | 3 | 0.1321 | 5 | 0.5342 | | | | | | |
| 10000 | 5 | 1 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 4 | 5 | 0.0000175 | 0.0012 | 0.001193678 | 1.14% | 0.0000175 | 0.004 | 0.003964726 | 0.61% | 0.000001 | 0.1321 | 0.13267733 | 0.45% | 0.000152 | 0.2936 | 0.298821667 | 1.75% | 0.000145 | 0.5246 | 0.52938391 | 0.91% | 0.000071 | 3 | 0.1321 | 5 | 0.5342 | | | | | | |
| 10000 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 0.000008 | 0.1626 | 0.17138267 | 5.12% | 0.000068 | 0.0372 | 0.03694683 | 0.02% | 0.000183 | 0.2085 | 0.206774841 | 0.06% | 0.000103 | 0.2412 | 0.241138617 | 0.05% | 0.000093 | 0.2312 | 0.2311623 | 0.00% | 0.000068 | 2 | 0.1978 | 5 | 0.1978 | | | | | | |
| 10000 | 5 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 4 | 5 | 0.000036 | 0.0001 | 0.000162437 | 38.44% | 0.000178 | 0.0114 | 0.01211944 | 6.65% | 0.000265 | 0.0912 | 0.08809394 | 2.46% | 0.000258 | 0.2876 | 0.284031028 | 1.26% | 0.000148 | 0.6927 | 0.614584657 | 0.79% | 0.000148 | 5 | 0.6097 | 5 | 0.6097 | | | | | | |
| 10000 | 5 | 4 | 4 | 4 | 4 | 4 | 1 | 2 | 3 | 4 | 5 | 0.0001578 | 0.0001 | 0.000136648 | 10.00% | 0.001136 | 0.0046 | 0.004715234 | 2.40% | 0.000321 | 0.2486 | 0.249716234 | 0.45% | 0.000319 | 0.6927 | 0.701003442 | 0.41% | 0.000319 | 5 | 0.7039 | 5 | 0.7039 | | | | | | | | | | |
| 10000 | 5 | 3 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 5 | 0.000046 | 0.3391 | 0.340267959 | 0.34% | 0.000215 | 0.2177 | 0.22434352 | 3.44% | 0.000252 | 0.1779 | 0.17168005 | 4.00% | 0.000338 | 0.1415 | 0.141664833 | 0.12% | 0.000241 | 0.1232 | 0.123864351 | 0.09% | 0.000241 | 1 | 0.3391 | 1 | 0.3391 | | | | | | |
| 10000 | 5 | 3 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 0.0000193 | 0.0793 | 0.081104462 | 2.15% | 0.000317 | 0.1568 | 0.156412756 | 0.25% | 0.000558 | 0.0514 | 0.051210956 | 0.93% | 0.000352 | 0.255 | 0.254444561 | 0.56% | 0.000233 | 0.6249 | 0.294078445 | 0.28% | 0.000193 | 5 | 0.0793 | 5 | 0.2949 | | | | | | |
| 10000 | 5 | 5 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 4 | 5 | 0.0001242 | 0 | 0.284442426 | 10.00% | 0.000995 | 0.0207 | 0.020744852 | 7.57% | 0.000513 | 0.0347 | 0.034051083 | 0.38% | 0.000545 | 0.2594 | 0.254595927 | 1.90% | 0.000357 | 0.6846 | 0.691273962 | 0.99% | 0.000354 | 4 | 0.2594 | 4 | 0.6844 | | | | | | |
| 10000 | 5 | 5 | 4 | 4 | 4 | 4 | 1 | 2 | 3 | 4 | 5 | 0.0001007 | 0.0001 | 0.000101517 | 10.00% | 0.000249 | 0.0004 | 0.000135147 | 9.40% | 0.000493 | 0.0228 | 0.0210717975 | 1.58% | 0.000498 | 0.2594 | 0.254595927 | 1.90% | 0.000498 | 4 | 0.2594 | 4 | 0.6844 | | | | | | | | | | |
| 10000 | 5 | 5 | 5 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 0.000165 | 0 | 0.57614 | 100.00% | 0.000357 | 0.6241 | 0.63696555 | 1.98% | 0.000214 | 0.2727 | 0.215640029 | 3.27% | 0.000378 | 0.1012 | 0.09647792 | 4.68% | 0.000413 | 0.052 | 0.05098964 | 1.98% | 0.000214 | 3 | 0.2227 | 1 | 0.6241 | | | | | | |
| 10000 | 5 | 5 | 3 | 3 | 5 | 7 | 9 | 1 | 2 | 3 | 4 | 0.0001261 | 0.0085 | 0.009525046 | 22.26% | 0.000473 | 0.5148 | 0.247490147 | 2.12% | 0.000786 | 0.2369 | 0.247490147 | 2.12% | 0.000864 | 0.1443 | 0.147581341 | 1.02% | 0.000698 | 0.0595 | 0.05685597 | 1.02% | 0.000473 | 2 | 0.5148 | 2 | 0.5148 | | | | | | |
| 10000 | 5 | 7 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 4 | 5 | 0.000163 | 0 | 0.5631714 | 100.00% | 0.000867 | 0.0083 | 0.008349319 | 51.42% | 0.000917 | 0.0284 | 0.0283407159 | 8.02% | 0.000629 | 0.2265 | 0.226633999 | 0.00% | 0.000316 | 0.7448 | 0.74384749 | 0.40% | 0.000316 | 5 | 0.7448 | 5 | 0.7448 | | | | | | |
| 10000 | 5 | 7 | 4 | 4 | 4 | 4 | 1 | 2 | 3 | 4 | 5 | 0.0001951 | 0 | 0.41836510 | 100.00% | 0.001745 | 0.0003 | 0.00033568 | 24.86% | 0.000749 | 0.0174 | 0.017520908 | 0.69% | 0.000749 | 0.1985 | 0.19850049 | 0.79% | 0.000749 | 0.736 | 0.7342914 | 0.22% | 0.000749 | 7 | 0.736 | 7 | 0.736 | | | | | | |
| 10000 | 5 | 7 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 0.0000819 | 0.326 | 0.324475623 | 0.47% | 0.000405 | 0.2288 | 0.22348323 | 2.38% | 0.000578 | 0.0272 | 0.027584251 | 8.26% | 0.000286 | 0.14 | 0.147513043 | 5.09% | 0.000708 | 0.131 | 0.12870259 | 3.34% | 0.000405 | 2 | 0.2288 | 1 | 0.2288 | | | | | | |
| 10000 | 5 | 7 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 0.0001699 | 0.0286 | 0.026820923 | 6.63% | 0.000128 | 0.1054 | 0.07339361 | 1.81% | 0.001026 | 0.2112 | 0.198992545 | 6.13% | 0.000914 | 0.2917 | 0.28969057 | 0.69% | 0.000881 | 0.3631 | 0.3715204 | 3.73% | 0.000881 | 5 | 0.3631 | 5 | 0.3631 | | | | | | |
| 10000 | 5 | 8 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 4 | 5 | 0.000187 | 0.0001 | 0.000101517 | 10.00% | 0.000249 | 0.0004 | 0.000135147 | 9.40% | 0.000493 | 0.0228 | 0.0210717975 | 1.58% | 0.000498 | 0.2594 | 0.254595927 | 1.90% | 0.000498 | 4 | 0.2594 | 4 | 0.6844 | | | | | | | | | | |
| 10000 | 5 | 8 | 4 | 4 | 4 | 4 | 1 | 2 | 3 | 4 | 5 | 0.000325 | 0 | 0.473451 | 100.00% | 0.001294 | 0.0003 | 0.00033568 | 24.86% | 0.001214 | 0.0112 | 0.010280063 | 5.47% | 0.000995 | 0.1798 | 0.18327034 | 0.28% | 0.000481 | 0.8081 | 0.80352856 | 0.57% | 0.000481 | 5 | 0.8081 | 5 | 0.8081 | | | | | | |
| 10000 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 0.000475 | 0.3217 | 0.322584819 | 0.32% | 0.000697 | 0.2023 | 0.223372648 | 1.38% | 0.000908 | 0.1748 | 0.17620216 | 0.86% | 0.000759 | 0.1477 | 0.148220736 | 0.35% | 0.000918 | 0.1355 | 0.12954085 | 4.60% | 0.000475 | 1 | 0.3217 | 1 | 0.3217 | | | | | | |
| 10000 | 5 | 8 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 0.0001267 | 0.0216 | 0.020992609 | 9.74% | 0.0001575 | 0.0293 | 0.09852677 | 6.12% | 0.001025 | 0.2033 | 0.194810214 | 4.36% | 0.000959 | 0.2872 | 0.293963407 | 2.30% | 0.000765 | 0.3954 | 0.391798889 | 0.92% | 0.000765 | 5 | 0.3954 | 5 | 0.3954 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Match total | | 36/39 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 80.00% | | | | | | | | | |
| AP+ MIN[ETs (K)] = MAX[Pr[I* = j]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |