

■ **OUTPUT DATA**

Fig 14. Signal Cost for Velocity

| Velocity | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 | PMIPv6 | HMIPv6 | Proposed |
|----------|------------|-----------|-------|--------|--------|----------|
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | 40.6 | 39.3 | 35.5 | 12.8 | 8.3 | 8.3 |
| 10 | 81.2 | 78.5 | 71.1 | 25.5 | 16.5 | 16.5 |
| 15 | 121.8 | 117.8 | 106.6 | 38.3 | 24.8 | 24.8 |
| 20 | 162.3 | 157.0 | 142.1 | 51.0 | 33.0 | 33.0 |
| 25 | 202.9 | 196.3 | 177.7 | 63.8 | 41.3 | 41.3 |
| 30 | 243.5 | 235.5 | 213.2 | 76.5 | 49.5 | 49.5 |

Fig 15. Signal Cost for Radius

| Radius | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 | PMIPv6 | HMIPv6 | Proposed |
|--------|------------|-----------|-------|--------|--------|----------|
| 400 | 201.6 | 194.3 | 172.7 | 41.4 | 15.3 | 15.3 |
| 450 | 178.2 | 171.9 | 153.4 | 35.7 | 12.5 | 12.5 |
| 500 | 159.3 | 153.5 | 137.0 | 31.3 | 10.1 | 10.1 |
| 550 | 143.8 | 138.3 | 122.8 | 27.2 | 8.2 | 8.2 |
| 600 | 131.0 | 125.9 | 112.0 | 24.1 | 6.7 | 6.7 |
| 650 | 120.1 | 115.4 | 102.3 | 21.3 | 5.3 | 5.3 |
| 700 | 110.7 | 106.4 | 94.2 | 19.1 | 4.1 | 4.1 |
| 750 | 102.7 | 98.6 | 87.2 | 17.1 | 3.2 | 3.2 |
| 800 | 95.7 | 91.7 | 81.1 | 15.4 | 2.3 | 2.3 |

Fig 16. Packet Delivery Dost for Session Arrival Rate

| Session Arrival Rate | HMIPv6 | PMIPv6 | Proposed | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 |
|----------------------|--------|--------|----------|------------|-----------|-------|
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.1 | 225.5 | 167.5 | 167.5 | 118.0 | 118.0 | 86.0 |
| 0.2 | 451.0 | 335.0 | 335.0 | 236.0 | 236.0 | 172.0 |
| 0.3 | 676.5 | 502.5 | 502.5 | 354.0 | 354.0 | 258.0 |
| 0.4 | 902.0 | 670.0 | 670.0 | 472.0 | 472.0 | 344.0 |
| 0.5 | 1127.5 | 837.5 | 837.5 | 590.0 | 590.0 | 430.0 |
| 0.6 | 1353.0 | 1005.0 | 1005.0 | 708.0 | 708.0 | 516.0 |
| 0.7 | 1578.5 | 1172.5 | 1172.5 | 826.0 | 826.0 | 602.0 |
| 0.8 | 1804.0 | 1340.0 | 1340.0 | 944.0 | 944.0 | 688.0 |
| 0.9 | 2029.5 | 1507.5 | 1507.5 | 1062.0 | 1062.0 | 774.0 |
| 1 | 2255.0 | 1675.0 | 1675.0 | 1180.0 | 1180.0 | 860.0 |

Fig 17. Packet Delivery Dost for Indirect Path Routing Ratio

| Indirect Path Routing Ratio | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 | HMIPv6 | PMIPv6 | Proposed |
|-----------------------------|------------|-----------|--------|--------|--------|----------|
| 0.1 | 544.0 | 544.0 | 384.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.2 | 1088.0 | 1088.0 | 768.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.3 | 1632.0 | 1632.0 | 1152.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.4 | 2176.0 | 2176.0 | 1536.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.5 | 2720.0 | 2720.0 | 1920.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.6 | 3264.0 | 3264.0 | 2304.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.7 | 3808.0 | 3808.0 | 2688.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.8 | 4352.0 | 4352.0 | 3072.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.9 | 4896.0 | 4896.0 | 3456.0 | 2260.0 | 1670.0 | 1670.0 |
| 1 | 5440.0 | 5440.0 | 3840.0 | 2260.0 | 1670.0 | 1670.0 |

Fig 18. Packet Tunneling Cost for Session Arrival Rate

| Indirect Path Routing Ratio | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 | HMIPv6 | PMIPv6 | Proposed |
|-----------------------------|------------|-----------|--------|--------|--------|----------|
| 0.1 | 544.0 | 544.0 | 384.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.2 | 1088.0 | 1088.0 | 768.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.3 | 1632.0 | 1632.0 | 1152.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.4 | 2176.0 | 2176.0 | 1536.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.5 | 2720.0 | 2720.0 | 1920.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.6 | 3264.0 | 3264.0 | 2304.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.7 | 3808.0 | 3808.0 | 2688.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.8 | 4352.0 | 4352.0 | 3072.0 | 2260.0 | 1670.0 | 1670.0 |
| 0.9 | 4896.0 | 4896.0 | 3456.0 | 2260.0 | 1670.0 | 1670.0 |
| 1 | 5440.0 | 5440.0 | 3840.0 | 2260.0 | 1670.0 | 1670.0 |

Fig 19. Packet Tunneling Cost for Indirect Path Routing Ratio

| Session Arrival Rate | HMIPv6 | PMIPv6 | Proposed | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 |
|----------------------|--------|--------|----------|------------|-----------|-------|
| 0.1 | 226.0 | 167.5 | 167.5 | 118.0 | 118.0 | 86.0 |
| 0.2 | 452.0 | 335.0 | 335.0 | 236.0 | 236.0 | 172.0 |
| 0.3 | 678.0 | 502.5 | 502.5 | 354.0 | 354.0 | 258.0 |
| 0.4 | 904.0 | 670.0 | 670.0 | 472.0 | 472.0 | 344.0 |
| 0.5 | 1130.0 | 837.5 | 837.5 | 590.0 | 590.0 | 430.0 |
| 0.6 | 1356.0 | 1005.0 | 1005.0 | 708.0 | 708.0 | 516.0 |

| | | | | | | |
|-----|--------|--------|--------|--------|--------|-------|
| 0.7 | 1582.0 | 1172.5 | 1172.5 | 826.0 | 826.0 | 602.0 |
| 0.8 | 1808.0 | 1340.0 | 1340.0 | 944.0 | 944.0 | 688.0 |
| 0.9 | 2034.0 | 1507.5 | 1507.5 | 1062.0 | 1062.0 | 774.0 |
| 1 | 2260.0 | 1675.0 | 1675.0 | 1180.0 | 1180.0 | 860.0 |

Fig 20. Total Cost for Session-to-Mobility Ratio

| Session-to-Mobility Ratio | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 | HMIPv6 | PMIPv6 | Proposed |
|---------------------------|------------|-----------|-------|--------|--------|----------|
| 0.0 | 954.0 | 928.0 | 791.0 | 541.0 | 509.0 | 422.0 |
| 5.0 | 380.0 | 374.0 | 297.0 | 470.0 | 370.0 | 353.0 |
| 10.0 | 309.0 | 306.0 | 235.0 | 461.0 | 352.0 | 344.0 |
| 15.0 | 285.0 | 282.0 | 213.0 | 457.0 | 346.0 | 340.0 |
| 20.0 | 272.0 | 270.0 | 202.0 | 456.0 | 343.0 | 339.0 |
| 25.0 | 266.0 | 263.0 | 195.0 | 455.0 | 342.0 | 338.0 |
| 30.0 | 261.0 | 259.0 | 193.0 | 454.0 | 341.0 | 337.0 |

Fig 21. Total Cost for Session-to-Mobility Ratio

| Session-to-Mobility Ratio | Pre-FMIPv6 | Re-FMIPv6 | MIPv6 | HMIPv6 | PMIPv6 | Proposed |
|---------------------------|------------|-----------|--------|--------|--------|----------|
| 0.0 | 1806.0 | 1780.0 | 1388.0 | 548.0 | 510.0 | 422.0 |
| 5.0 | 1234.0 | 1226.0 | 894.0 | 472.0 | 374.0 | 352.0 |
| 10.0 | 1162.0 | 1156.0 | 830.0 | 462.0 | 354.0 | 344.0 |
| 15.0 | 1136.0 | 1134.0 | 810.0 | 456.0 | 346.0 | 340.0 |
| 20.0 | 1116.0 | 1116.0 | 792.0 | 454.0 | 342.0 | 338.0 |
| 25.0 | 1112.0 | 1112.0 | 788.0 | 452.0 | 341.0 | 337.0 |
| 30.0 | 1111.0 | 1111.0 | 786.0 | 452.0 | 340.0 | 336.0 |