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58. The process claimed in claim **57**, wherein determining a difference comprises:

providing a query to a network element maintaining a database associating base stations pairs and average TDOAs; and

receiving said average.

59. A base station of a communication network, comprising:

means for determining a difference of an average measured time difference of arrival (TDOA) at a known location of a signal from said base station relative to a signal from a reference base station and an expected TDOA at said known location of a signal from said base station relative to a signal from said reference base station; and

means for adjusting timing of said signal of said base station by an amount of said difference to align a PN offset of the base station with a PN offset of the reference base station.

60. The base station claimed in claim **59**, wherein said means for determining a difference comprises:

means for determining a network element maintaining a database associating said base station pairs and average TDOAs over a period of time;

means for providing a query to a determined network element comprising identification of said base station and said reference base station; and

means for receiving said average.

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61. A process in a base station of a communication network, comprising:

providing a query to a calibration terminal of said network comprising identification of said base station and a reference base station;

receiving from the calibration terminal a correction factor for time difference of arrival (TDOA) measurements for said base station and said reference base station;

storing said correction factor; and

periodically broadcasting said correction factor in conjunction with identification of said base station and said reference base station.

62. A base station of a communication network, comprising:

means for providing a query to a calibration terminal of said network comprising identification of said base station and a reference base station;

means for receiving from said calibration terminal a correction factor for time difference of arrival (TDOA) measurements for said base station and said reference base station;

means for storing said correction factor; and

means for periodically broadcasting said correction factor in conjunction with identification of said base station and said reference base station.

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