9. The method according to any one of claims 1 to 6, wherein the step of synchronizing comprises:

transmitting preambles from the first mobile station periodically.

10. The method according to any one of claims 1 to 6, wherein synchronizing the forwarding link between the first mobile station and the second mobile station comprises:

transmitting, from the first mobile station to the second mobile station, a first ranging code; and

estimating, by the second mobile station, a time offset from the first ranging code; and

adjusting, by the second mobile station, a receiving time of the second mobile station based on the time offset.

11. The method according to any one of claims 1 to 7, wherein synchronizing the forwarding link between the first mobile station and the second mobile station comprises:

transmitting, from the second mobile station to the first mobile station, a first ranging code; and

estimating, by the first mobile station, a time offset from the first ranging code.

12. The method according to any one of claims 1 to 8, further comprising:

adjusting, by the first mobile station, a receiving time of the first mobile station based on ~~the~~a time offset.

13. The method according to any one of claims 1 to 12, further comprising: