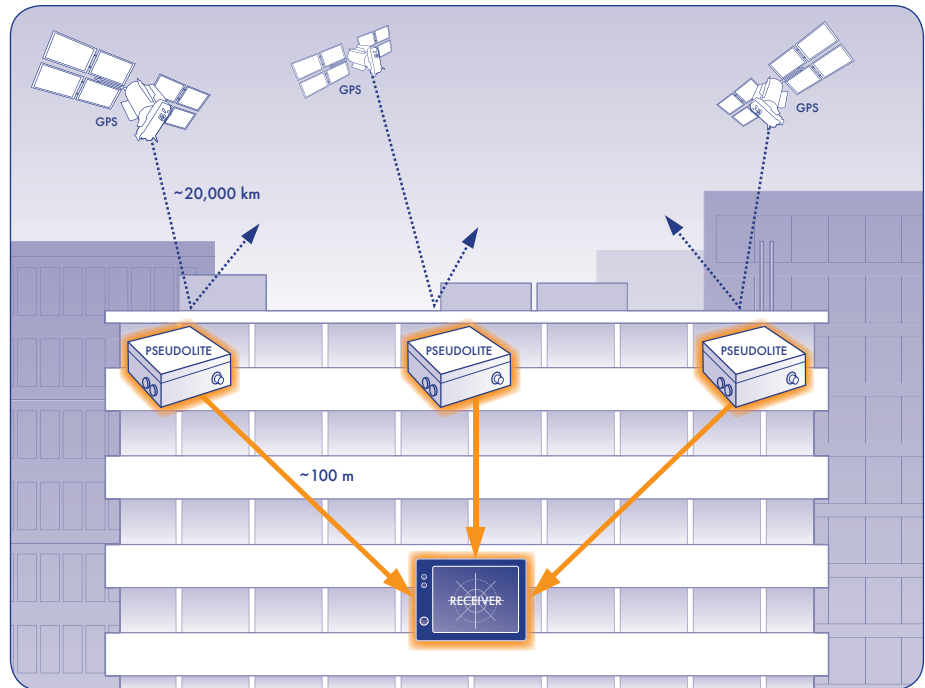


Indoor GPS Location

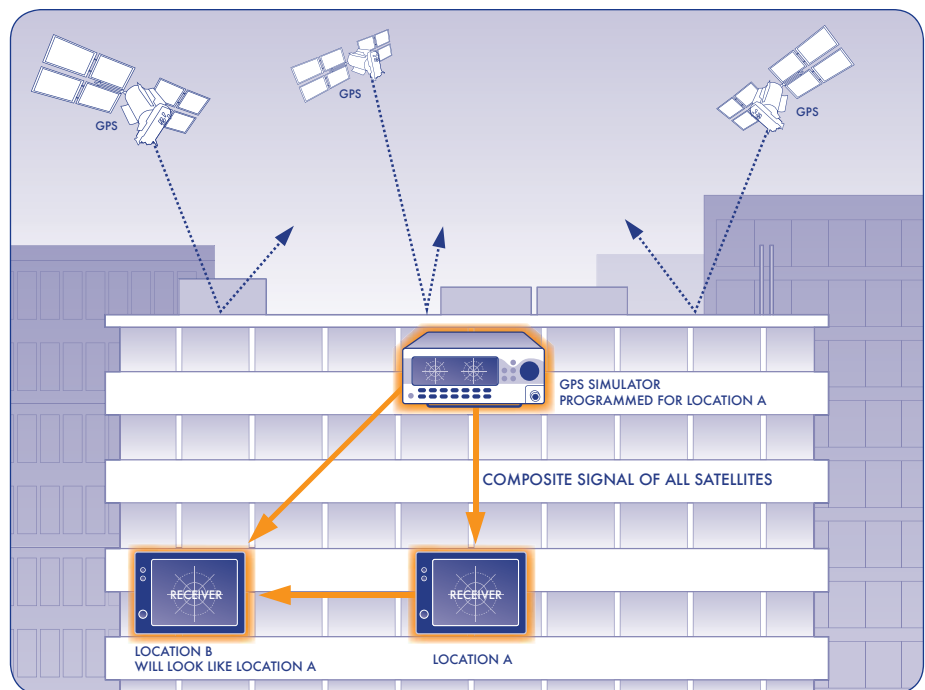
Pseudolites for Indoor Location

- GPS signals do not penetrate buildings.
- Pseudolites can generate "GPS" signals, but receivers will reject them because the range is too short.
- Only specially designed receivers will work with pseudolites.



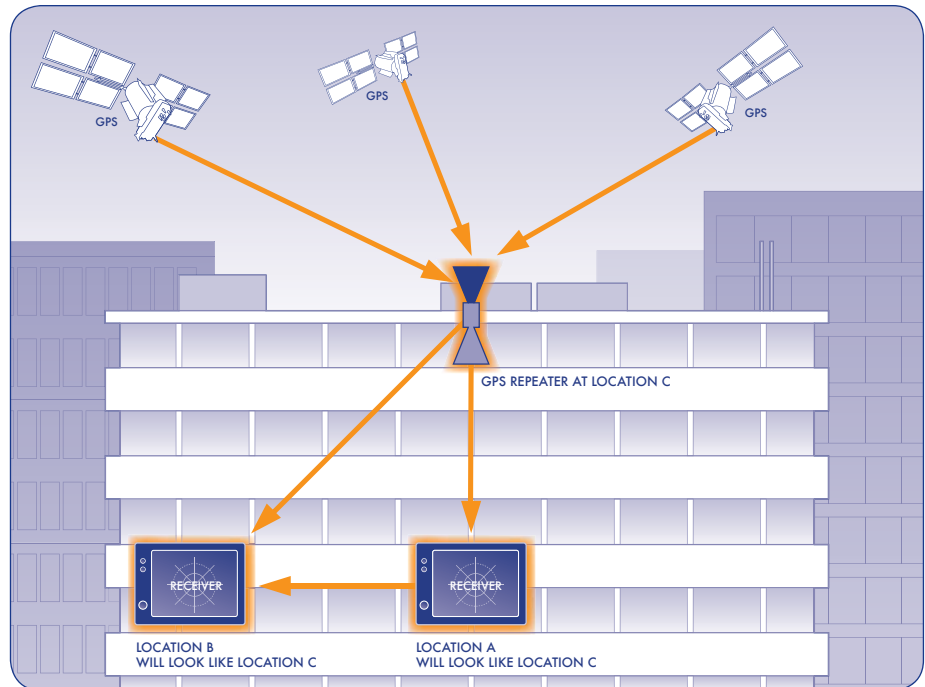
With Simulator

- A Simulator will create the same delays as real satellites for a given location.
- However, the position will be measured as the same at any other location.



Similar Problem with Repeaters

- Repeater gathers the satellite signals at a single point and re-broadcasts them inside.
- There are no differences in individual satellite delays inside the building so locations cannot be differentiated.



Conclusion

- Simulators will activate indoor receivers to locate them to an arbitrary point anywhere inside the building.
- Repeaters behave similarly, all positions will appear as the repeater location.
- Pseudolites will locate receivers if they are designed to work with pseudolites. Let us know if you have specially designed receivers to determine if we can provide you pseudolites.