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## What Is Geolocation AND HOW DOES IT WORK?

A geolocation system is an **information technology solution** that ascertains the location of an object in a physical (geo-spatial) or virtual (Internet) environment. Two different types of data may be collected—active user/ device-based information and passive server-based lookup/ data correlation—and then cross-referenced against each other to create the most accurate geolocation result. I forget—where was this picture taken and when?

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Alert! Your credit card was used in Ohio do you approve this transaction?



The advent of GPS, WiFi, wireless mobile networks and IP location identification techniques has spawned a wide range of derivative technology applications driven by the benefits of geolocation. Geolocation data is generally used for three purposes:



**Geo-Referencing or Positioning**: finding physical location of object or person relative to a map

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**Geo-Coding**: searching available types of objects and services listed by location

**3 Geo-Tagging**: embedding geographic data into an object's metadata for future reference

For more information from ISACA on geolocation, and the related privacy and security issues affecting practitioners in the industry, see <u>www.isaca.org/geolocation</u>.

