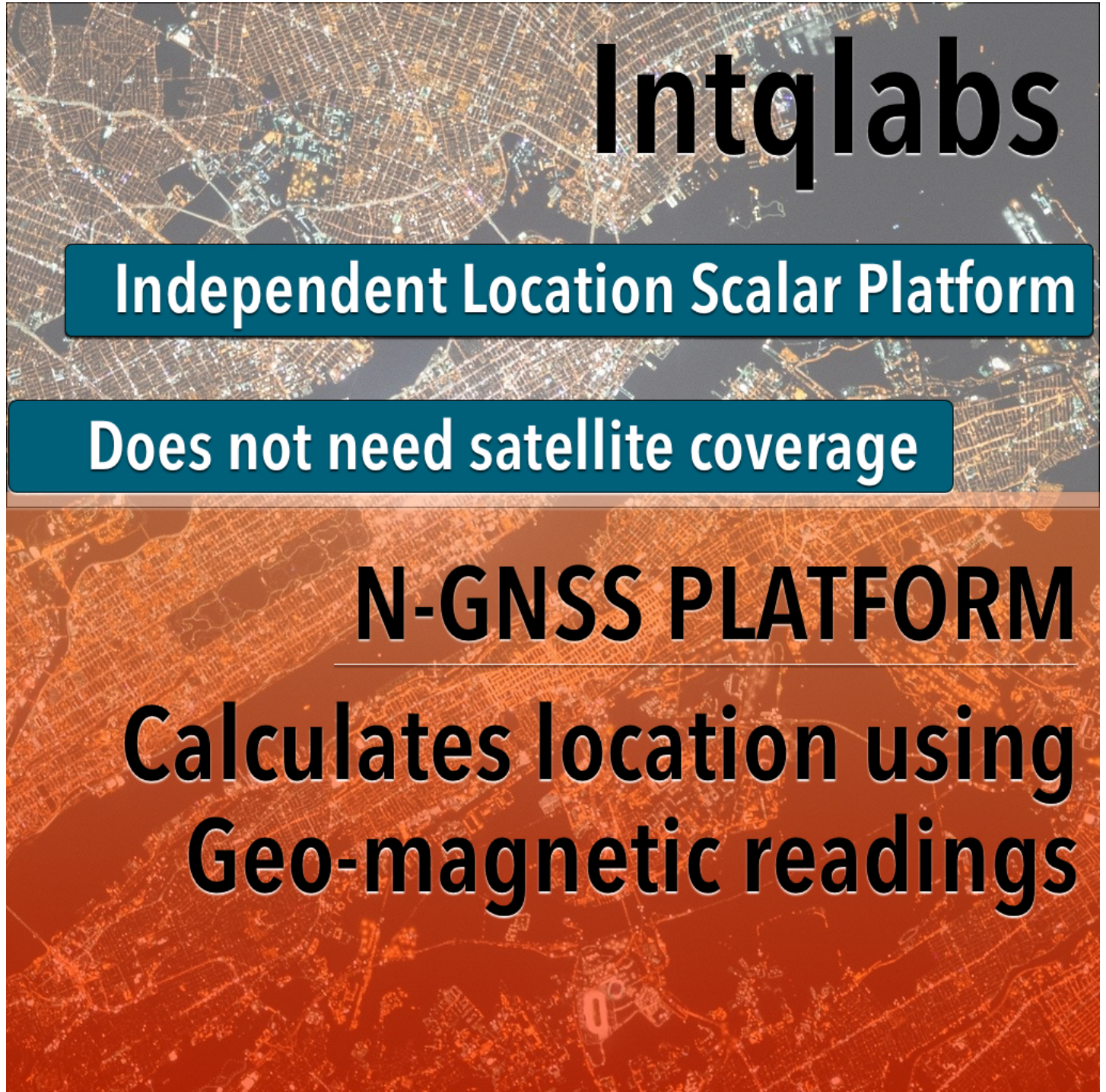


Intqlabs a Private Research Lab in Dubai Files Patent to Obtain GPS Location from Earth Magnetic Field

Breakthrough to accurately measure earth's geo-magnetic strength to calculate location. Hardware is immune to being jammed or spoofed as geo magnetism is measured via custom antenna and a connected complex networked array of sensors & processors.



Intqlabs

Independent Location Scalar Platform

Does not need satellite coverage

N-GNSS PLATFORM

**Calculates location using
Geo-magnetic readings**

Dubai, United Arab Emirates Jan 17, 2022 ([IssueWire.com](https://www.IssueWire.com)) - Intelligent Quantum Labs (“[Intqlabs](#)”), today announced that its latest proprietary technology of enabling location lookup by relying solely on earth's geomagnetic strength is now patent-pending (Application 202111049994). Leveraging more

than 2 decades of experience in developing antennas, sensors, radio analysis platforms, and computing algorithms, the new technology incorporates advanced processes to calculate power profile data from magnetic readings. The power profile enables the calculation of a location underwater, in the air, or on the ground within a few seconds.

The technology dubbed New Global Navigation Satellite System (NGNSS) is developed to serve as an alternative to existing GNSS platforms such as GPS, GLONASS, Galileo, Beidou, QZSS, and IRNSS. NGNSS is novel and unique as (1) it does not depend on satellite constellation and (2) is not susceptible to being jammed, injected, replayed, or spoofed.

[NGNSS](#) operates on the core principle that every point on earth's surface and atmosphere has a uniquely calculable magnetic strength reading or a geomagnetic force. This force changes as per distance from the poles, elevation, altitude, time of day, the direction of sunlight, magnetosphere, earthquakes, inner core rotation, crust, declination, inclination, ionosphere, magnetosphere, gyrations that occurs in continuity such as solar storms, elevation, topography, altitude changes, spherical variations, regional anomalies, earth rotation and the magnetic strength changes due to the pole shift along with all other forms of interference via static, dynamic (screaming) and temporary sources.

NGNSS removes interference and noise from geomagnetic readings by using a specialised array aligned Multiple Input Multiple Output (MIMO) antenna system connected to a complex setup that is a network of embedded processors, extremely sensitive fluxgate, and other sensors. The antenna and embedded setup process the magnetic strength reading to obtain the power profile, split the various signals in a profile, and then calculate the direction, origin, and location of these sources. This enables NGNSS to identify the true strength of the earth's geomagnetic field by removing all sources of interference.

NGNSS is a secure platform unaffected by jamming, replay, or injection as it monitors power profiles and simply drops the malicious data. Furthermore, NGNSS is independent of the constellation of satellites which makes it a standalone, secure, and 'always-available' platform that can be integrated within any electronic terminal by strategically embedding a chip and a covertly designed antenna.

[About Intqlabs:](#)

Intqlabs is a leading research company that focuses on quantum computing, reverse computing, radio, and magnetic analysis platforms, cyber security, and semiconductor chip design. It has filed several patents around the world via an experienced team of researchers and scientists that work to generate, test, and deliver novel platforms. Intqlabs platforms are targeted towards manufacturers to assist in the establishment of a seamless supply chain and facilitate product integration at various levels of an assembly line. Our portfolio is available for licensing and joint manufacturing for hardware manufacturers along with technology transfer options. Our culture is to solely focus on research, quality

assurance, and training of customers so that we can concentrate on our core competency while the customer can use our technology to create in-numerous applications and support systems. For more information reach out at: [reception \[at\] intqlabs \[dot\] com](mailto:reception[at]intqlabs[dot]com) or connect with us using [LinkedIn](#)

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