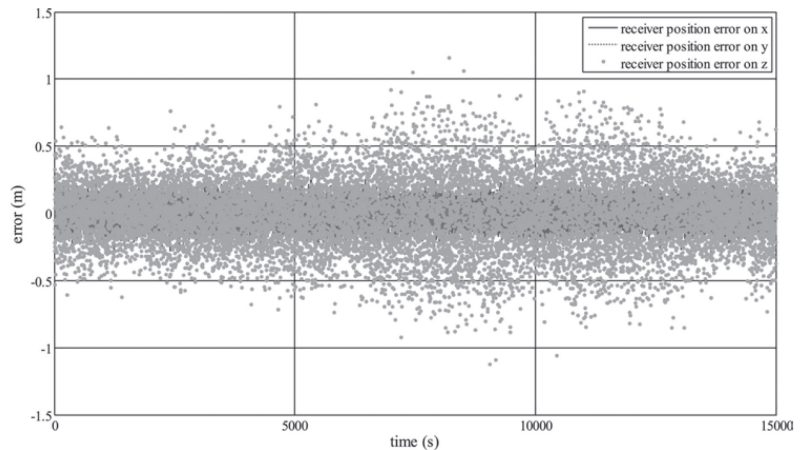
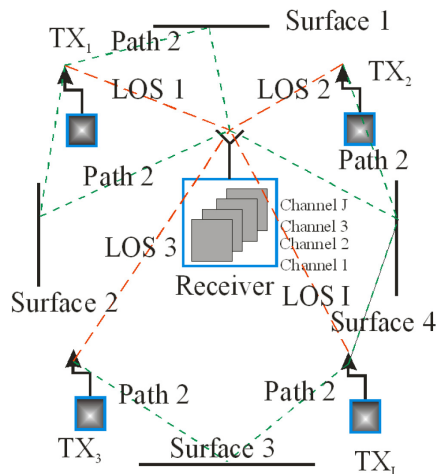




Solutions

Mission Statement



Giftet® Global Navigation Solutions are aimed towards developing, marketing, and distributing **Giftet® Navigator**, **Giftet® Aeronautical Navigator**, and **Giftet® Maritime Navigator** for Indoor Geolocation Systems, Geolocation of RF Signals, Geospatial, Geo-Information, Geo-Intelligence, Geo Referencing, GPS, GLONASS, Galileo, QZSS, and other Global Satellite and/or Pseudolite Navigation (or Positioning and/or Timing) Systems based on customer's needs.

Ensuring the highest level of customer's satisfaction and at the same time the highest level of the professionally engineered, designed, developed, and delivered global navigation solutions.

Projects

Giftet is currently developing **Giftet® Navigator**, **Giftet® Aeronautical Navigator**, and **Giftet® Maritime Navigator** for three types of indoor geolocation systems

- 1 C-CDMA pseudolite indoor geolocation system <http://giftet.com/JG3/2017/071605.pdf>
- 2 MC-CDMA pseudolite indoor geolocation system <http://giftet.com/sol/mccdma.pdf>
- 3 OFDMA pseudolite indoor geolocation system. <http://giftet.com/sol/ofdma.pdf>

First, the requirements of a C-CDMA pseudolite indoor geolocation system include

1. C-CDMA System requirements <http://www.giftet.com/JG3/2017/071605.pdf>
2. C-CDMA Pseudolite (or transmitter) requirements <http://giftet.com/JG3/2017/071605.pdf>



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3. C-CDMA Receiver requirements <http://www.giffet.com/JG3/2017/071605.pdf>

Second, the requirements of an OFDMA pseudolite indoor geolocation system include

1. OFDMA system requirements <http://giffet.com/sol/ofdma.pdf>
2. OFDMA pseudolite (or transmitter) requirements <http://giffet.com/sol/ofdma.pdf>
3. OFDMA receiver requirements <http://giffet.com/sol/ofdma.pdf>

Third, the requirements of an MC-CDMA pseudolite indoor geolocation system include

4. MC-CDMA system requirements <http://giffet.com/sol/mccdma.pdf>
5. MC-CDMA pseudolite (or transmitter) requirements <http://giffet.com/sol/mccdma.pdf>
6. MC-CDMA receiver requirements <http://giffet.com/sol/mccdma.pdf>

Giffet® Navigator

Giffet would like to collaborate with Giffet Government Agencies and Giffet Industry Partners such as Microsoft, Verizon Wireless, Qualcomm, LG, and Motorola etc. in developing **Giffet® Navigator**. Giffet Navigator® will have the ability to read Digital Terrestrial Chart (or Map) as well as GPS/GNSS/Pseudolite data and provide worldwide [terrestrial] cm level position accuracy 99.9% of the time using Giffet Intellectual Property (IP) Global Navigation Solution system and enable safe and extremely accurate terrestrial navigation for the US Army, Federal and State Law enforcement, US Department of Homeland Security, Government (Federal or State) agencies and government/US Military sponsored contractors however under the worst case scenario conditions such as (heavy multipath, lack of GPS signals, interference, jamming etc.) for which currently any GPS devices and/or systems offer ~100 m position accuracy.

The requirements of **Giffet® Navigator**

1. **Giffet® Navigator** system requirements
2. **Giffet® Navigator** signal requirements
3. **Giffet® Navigator** receiver requirements.

Giffet® Aeronautical Navigator

Giffet® Aeronautical Navigator will have the ability to ability to read **Digital Aeronautical Chart®** anywhere from the 29 Digital Aeronautical Chart geographic regions, contained between 90° North latitude and 90° South latitude, and support a variety of Geographic Information System applications and also process GPS/GNSS/Pseudolite data and enable safe and very accurate aeronautical navigation for the US Air Force, US Navy, Government agencies and government/US military sponsored contractors. It is also anticipated that **Giffet® Aeronautical Navigator** will enable public sale of **Digital Aeronautical Chart®** in US airspace and worldwide.

The requirements of **Giffet® Aeronautical Navigator**

1. **Giffet® Aeronautical Navigator** system requirements
2. **Giffet® Aeronautical Navigator** signal requirements
3. **Giffet® Aeronautical Navigator** receiver requirements



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Giftet® Maritime Navigator

Another example of Giftet® Global Navigation Solutions is **Giftet® Maritime Navigator** which will have the ability to read Digital Nautical Chart® anywhere from the 29 Digital Nautical Chart geographic regions, contained between 90° North latitude and 90° South latitude, and support a variety of Geographic Information System applications and also GPS/GNSS/Pseudolite data and enable safe and accurate maritime navigation for the US Navy, US Coast Guard, Government agencies and government/US military sponsored contractors. It is also anticipated that **Giftet® Maritime Navigator** will enable public sale of Digital Nautical Chart in US waters and worldwide.

The requirements of **Giftet® Maritime Navigator**

1. **Giftet® Maritime Navigator** system requirements
2. **Giftet® Maritime Navigator** signal requirements
3. **Giftet® Maritime Navigator** receiver requirements

Tutorials

Global Navigation Solution tutorials are indicated below

Indoor Geolocation Systems includes: (1) Introduction to Indoor Geolocation Systems; (2) C-CDMA Indoor Geolocation Systems; (3) OFDMA Indoor Geolocation Systems; (4) MC-CDMA Indoor Geolocation Systems; and (5) Hands on lab examples which cover intermediate realistic geolocation problems on indoor geolocation systems. Available for purchase at US\$200 for Communications Society Members and US\$250 for Non-Members. Important: Check system requirements before purchasing.

Geolocation of RF Signals includes (1) Description the RF signals, the RF signal spectrum from 100 MHz – 66 GHz and the geolocation requirements per application; (2) Description the geolocation techniques; (3) Blind adaptive signal processing; (4) Geolocation and digital beam-forming; (5) Hands on lab illustrations which cover intermediate realistic geolocation of RF signals problems. Available for purchase at US\$200 for IEEE AESS Members and US\$250 for Non-Members. Important: contact Giftet Inc to purchase.

Presentations, Tutorials, Books

Please visit <http://giftet.com/publications.html>.