

ROAD TO NOWHERE —

A \$225 GPS spoofer can send sat-nav-guided vehicles into oncoming traffic *

* Some restrictions apply.

DAVID GOODIN - 7/18/2018, 7:30 AM

American researchers took control of a flying drone by "hacking" into its GPS system - acting on a \$1,000 (£640) dare from the US Department of Homeland Security (DHS).



Drones are mostly used for military operations.

A University of Texas at Austin team used "spoofing" - a technique where the drone mistakes the signal from hackers for the one sent from GPS satellites.

Smart cities

Ghost ships, crop circles, and soft gold: A GPS

Security

Texas students hijack superyacht with GPS-spoofing luggage

Don't panic, yet

By Ian Thompson in San Francisco 29 Jul 2013 at 18:04

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"In at least two of these incidents vessels reported GPS interference. Vessels have also reported spoofed bridge-to-bridge communications from unknown entities falsely claiming to be U.S. or coalition warships."

— The US Department of Transportation's Maritime Administration

Ships fooled in GPS spoofing attack suggest Russian cyberweapon



TECHNOLOGY

By David Hamblin

Claims of Tesla hack wide of the mark - we dig into GNSS hacking

This Tesla hack is plausible, but its implications were wildly overstated.

By JIM SALZER - 6/22/2018, 10:00 AM

Ghost ships, crop circles, and soft gold: A GPS mystery in Shanghai

November 18, 2019

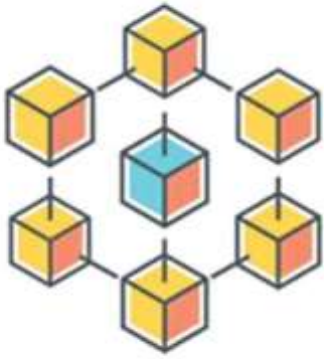
Evaluation of Smart Grid and Civilian UAV Vulnerability to GPS Spoofing Attacks

Daniel P. Shepard, Jahshan A. Bhatti, and Todd E. Humphreys



Blockchain Defining

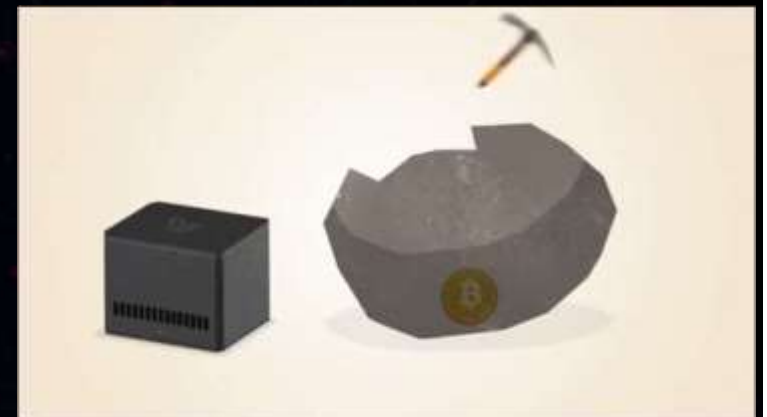
GeoSpatial



SUPPORTERS



PRODUCT TEAM





Technology consulting firm CB Insights has identified [27 ways](#) blockchain can fundamentally change processes as diverse as banking, cybersecurity, voting, and academics.

The World Economic Forum estimates that by 2027, [10% of global GDP](#) will be stored on blockchain technology.



A new transaction is entered.



The transaction is then transmitted to a network of peer-to-peer computers scattered across the world.



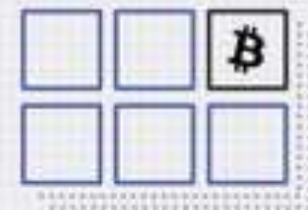
This network of computers then solves equations to confirm the validity of the transaction.



The transaction is complete.



These blocks are then chained together creating a long history of all transactions that are permanent.



Once confirmed to be legitimate transactions, they are clustered together into blocks.



The Blockchain advantage

- Automated**
- Immutability**
- Cost effective**
- De-centralized**



Data security

The blockchain's decentralized security detects backdoor hacks more easily than its alternatives. Blockchain tech secures and privatizes data through encryption and cryptographically protected passkeys. This is ideally suited to the Data security sensitive applications where both security and privacy are critical.



Cross-Border Transactions & Remittance

Blockchain-powered payment services charge less than one percent in fees on cross-border payments. They take only a few hours to process, and account for billions of dollars in international transfers completed.



Anti-Money Laundering (AML) and Counter-Terrorist Financing (CTF)

Investigations would become far quicker and cheaper with blockchain. Because data logged on the blockchain is distributed across hundreds or even thousands of nodes, altering the entire decentralized record is effectively impossible.



Moving beyond Digital Twin

- Design, build and maintenance is complex
- Digital with unhandy and laborious point to point integration.
- High cost of ownership and extension outside of enterprise is challenge.



Smart Contract Enforcement

Smart contracts hold both parties to an agreement, enforcing that contract with a self-executing algorithm. Money stays in escrow only to be released when the conditions of the agreement are fulfilled. Smart contracts substantially reduce the element of trust.



Record Sharing and Storage

Land Registry holds massive stores of records because they have so many data points. Blockchain also stores records in a decentralized fashion, providing top-flight security and easy accessibility. This system also eliminates the risk of complete record loss.

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