RECENT INNOVATIVE TECH- IDEAS IN NETWORKS AND ITS SECURITY

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ABSTRACT

Networking is a process that fosters the exchange of information and ideas among individuals or groups that share a common interest. Networks also vary considerably in terms of roles and responsibility of the computer on that network and the relationship that tie those machines together. The aviation industry isn't exactly known for being a wireless networking trendsetter. Even if we do that bandwidth is usually pretty limited. But unmanned aerial vehicles and drones stand to help change that. Academic and industry researchers are now working to make long distance, high speed wireless networking feasible. Their research is geared towards streamlining communication between unmanned aerial vehicles and manned aircraft .And network security. These kinds of networks will also be great challenges. So, we also proposed a new innovative techno idea called Understanding marketing technology of hackle. This article presents the integration of Wireless data links for drones and understanding marketing technology of hackle. Hacking is the word that shakes everyone whenever it is said or heard by someone. Everyone born in this world with attitude wants to be a Hacker. But it is not a job of a new born baby or an old grown lady. A hacker needs a brilliant mind to hack anything. His or her skills should be so powerful that no other hacker can hack them. A hacker doesn't need a software to hack. There are many rules that he should learn to become an Ethical Hacker. These rules include knowledge of HTML, java scripts, computer tricks, cracking& Breaking etc., The Information technology is becoming more and more of a hacking industry. Hacking is not only done by criminals it is also done by government agencies. Now what we have here is a hacker who is hacking the email addresses and taking all kind of information. Students in college are learning how to stop hacker from getting into server, email and Government data bases.
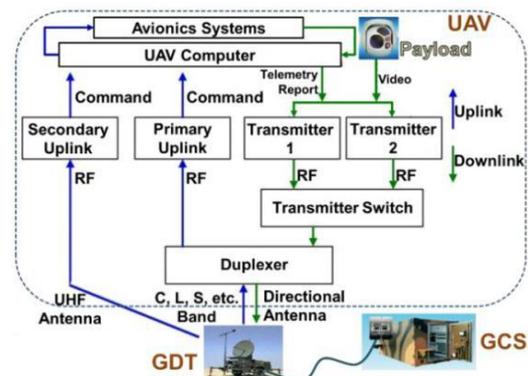
Keywords:

- Wireless networking trendsetter

- Unmanned aerial vehicle and manned aircraft

- Brilliant mind to hack everything

- Ground data station communication

- Release new pyBitmessage version 0.6.3.2

Introduction:

Drone Technology is constant evolving as a new innovation. Unmanned aerial vehicle technology covers everything from the aerodynamics of the drone, materials in the manufacture of the physical unmanned aerial vehicles to the circuit boards, chip set and software which are the brains of the drones. One of the most popular drones available is DJT phantom 3 with professional aerial cinematographers. A typical unmanned aircraft is made of light composite materials to reduce weight and increase manoeuvrability. Also, they are equipped with different state of art technology such as infra-red cameras, GPS and laser. It has two parts, the drone itself and the control system. Designing aeronautical wireless data links is much more challenging than other wireless links. Today the major problem in the information technology is hacking. No one can figure out how to stop this problem. This problem is a security based one and even the enforcement agencies are puzzled about on how to solve this problem. While everybody is on a computer, the hacker is figuring out different ways to hack and steal information.

The future of networking-Wireless data links for drones:

Unmanned aerial vehicle are formed by the four elements such as UAV, GDT, GCS and payload. Ground data station provides the communication between UAV and GCS over Q, C, S, UHF bands, etc. GCS is a mobile or stationary unit which controls the UAV and payload. It also receives the UAV and payload reports. The plug-ins on the UAV that can serve different purposes and perform different task are called as payload. The Unmanned aerial vehicle has two up links (UHF and C/L/S/Q/KU) and one down link(C/L/S/Q/KU). The reason for this is even a down link problem occurred, the unmanned aerial vehicle still can be controlled, whereas the control will be lost if there is a problem with up links.

Three types of data links are generally used for UAV communication. They are Line of sight (LOS), Beyond Line of sight(BLOS) and tactical data communication. LOS needs point to point high speed communication system. It can use different bands especially C and KU band. It consists of two units aerial and land. BLOS is a communication system which uses satellites for data link. It does not need LOS. Tactical data communication supports the UAV mission areas, network-centrist operations, allows simultaneous communication among multiple unmanned aerial vehicles, aircraft and the ground systems.

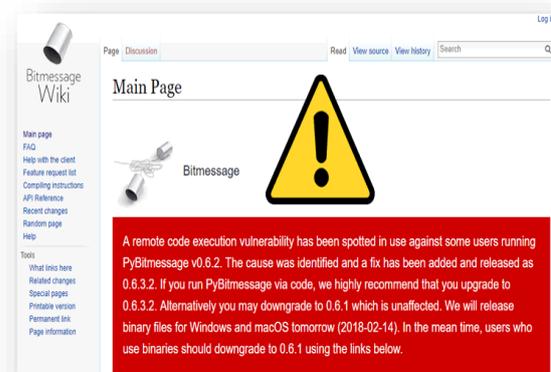Most commonly used frequency bands for Unmanned aerial vehicles:

BAND	FREQUENCY
HF	3-30 MHZ
VHF	30-300 MHZ
UHF	300-1000 MHZ
L	1-2 GHz
S	2-4 GHz
C	4-8 GHz
X	8-12 GHz
Ku	12-18 GHz
K	18-26,5 GHz
Ka	26,5-40 GHz

Hacker news:

Get the ultimate 2018 hacker Bundle – Pay what you want: Good news we bring an amazing deal of this month of our leader. Due to the growing number of threats in the computer world, ethical hacker have become the most important player for not only computer world ,ethical hackers have become the most important player for not only government but also private companies and IT firms in order to safeguard their system and networks from hackers trying to infiltrate them. By 2020 employment in all information technology occupations is expected to increase by 22 percent, where demand for ethical hackers and It security engineers will be the strongest. Although there are many are many popular and the best online course available in the market, you can't learn everything from a single book or a course.

Hackers exploiting Bit message Zero day to steal Bit coin wallet keys:

Bit Message developers have warned of a critical 'remotely executable' Zero day vulnerability in the pyBitmessage application that was being exploited in the wild. Bit message is a peer-to-peer (p2p) communications protocol used to send encrypted message to users. The automated script looked in elect rum wallets [elect rum wallets], but when using the reverse shell, he had access to other files as well. If the attacker transferred your Bit coins, please contact me (here on Reedit). Bit message Developers have since fixed the vulnerability with the release of new pyBitmessage version 0.6.3.2.

 Conclusion:

Although there is a lot of development of unmanned aerial vehicles, information security problems still remains. Because of this reason, the increase in the number of unmanned aerial vehicles and the need to ensure the security of data transmitted bring about the questions about frequency planning, frequency allocation and the ways of data transmissions.

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