DRONE SEC
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NOTIFY ISSUE #13

WEEKLY THREAT INTELLIGENCE

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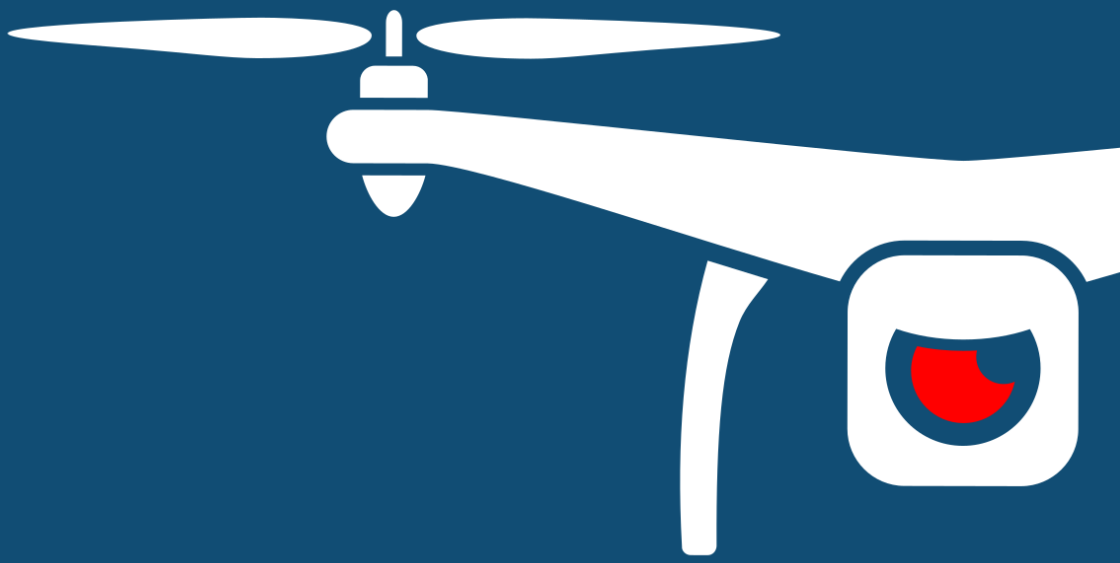

UAS HACKING, HARDENING AND DEFENCE

UAS PENETRATION TESTING
COUNTER-UAS CONSULTING
FORENSICS & INCIDENT RESPONSE
AERIAL THREAT SIMULATIONS
DRONE SECURITY MANAGEMENT PROGRAMS

DOCUMENT **CONTROL**

PREPARATION

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EXECUTIVE SUMMARY

The COVID-19 situation has brought many events, conferences and vacations to a stand-still. The team here at DroneSec hope you are all keeping well and taking the necessary (sometimes abundance of caution) preventions to ensure the health and safety of everyone. In other news, we welcome onboard our new intern Max Leijtens who is focusing on Threat Intelligence and Security Automation within drones – he'll be supporting some of the backend work for Notify in our commercial space.

This week, we have a number of important artefacts. We congratulate Lea Vesic in Australia for accepting the position of Aviation Advisor to Deputy Prime Minister the Hon Michael McCormack – a pivotal role that will play out in great importance this side of the pond. We'll be watching developments here quickly to determine the effect on the unmanned systems area.

Global requirements for drones, counter-drone and UTM systems are growing by the day – the UK Department of Transport has released a position for "Head of Drone and Counter-Drone Science and Technology" in an exciting new era of job openings and much needed skills. DroneSec made a "Drone Security Consultant" hire last year and are always on the lookout for a hybrid of intelligence, cyber security, unmanned systems and electronic engineer backgrounds; quite a mix! A big nod to STEM careers though, and the future possibility of dedicated drone security courses within Universities and learning centres.

A new ISO (21895:2020) has been released for the "Categorization and classification of civil unmanned aircraft systems" and NASA released the latest UTM document courtesy of the FAA. Furthermore, some exciting output from Bard College (Center for Study of the Drone) but upsetting news that their weekly roundup is discontinuing – please take the time to complete the survey on their website if you felt supported by their work in the past. We have extraordinary respect for their effort and dedication to the area and would like to thank them (and encourage) with their new direction forward.

Finally, the big ticket items on my list this week are the re-occurrence of (indirect or direct) malicious groups or individuals involved in Aviation Authority incidents across the globe; both in Australia and Singapore, we find media-worthy offences are often committed by the same group. This is all part of our pattern recognition in this area to track where a group may have been involved and potentially predict where they may be planning to offend next.

- *Mike Monnik, DroneSec CTO*

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1. THREAT INTELLIGENCE

1.1. INTRODUCTION

Threat Intelligence to the DroneSec team means cutting-edge information, news, resources and threats delivered in a succinct and actionable way. Notify is just that – key information that can be used to prepare, prevent and identify threats and challenges which seek to take advantage of the drone industry. Our aim is to allow organisations to make more informed decisions, respond effectively and get a birds-eye view of our core focus: Drones, Counter-Drone and Universal Traffic Management (UTM) Systems – also referred to as **DCU**.

When it comes to proactively seeking out the best solutions, developing response capabilities or building resilience into your drone operations, relevant information is king. We're dedicated to ensuring you stay up to date through Notify, while getting the specific details around techniques, vulnerabilities, targets and malicious actors. Furthermore, we've made all Notify information both scalable and easily categorised, providing a mechanism for easy search but also extraction of statistics and use cases for stakeholders who need pre-mitigation insights and strategies.

For technical operators, we've included the ability to be able to prioritise relevance over noise and communicate with each other to exchange ideas and collaborate on threats. This exchange happens on a number of levels, from our slack channel, to sharing DroneSec case-studies within the platform and hearing from our partners (individuals, technology vendors, law enforcement and regulatory bodies) who supply valuable information to Notify.

Weekly reports are just that – the lifespan only covers one week of intelligence and where this might extend is when we detected or were alerted to it later on. You can rely on this information not being too old or outdated; but you're always able to browse the archives and library for older artefacts. Anything breaking news, we send off immediately to our Notify subscribers – outside of this, the report covers the rest on a weekly basis.

So how does it all work? To view our methodology, sources and scoring matrix, head down to the appendices to get a feel for it all. Otherwise, information we deem as being 'key' is featured with insights and analysis supplied for reader's benefit. The rest of the information we pick up that can be categorised as security-based intelligence for DCU is placed thereafter. Our categorisation and tagging system mean that on a monthly basis, you'll get an overview of the statistics we've seen – updated in real-time, week-on-week for pattern recognition analysis.

Kicking it all off, we're delivering our first few rounds in PDF format. In the next few weeks, we'll continue to roll out platform access to ensure we can sustainably support our current client needs with relevant, actionable information within the context of DCU.

Something we missed? Keen to become a supplier? Want to join the Notify platform? Shoot us a message at info@dronesec.com. Otherwise, feel free to hop into the slack channel and introduce yourself: DroneSec Slack Channel. If you missed the previous issue, please email us.

1.2. FEATURED ADVISORIES (P2)

There were no public advisories sent to Notify subscribers this week.

1.3. NEWS AND EVENTS (P3)

Singaporean man fined $9,000 for flying dangerously within aerodrome without a valid permit

A Singaporean man who broke the law in two separate occasions by unlawfully flying his DJI Mavic Air drone within 5km of an aerodrome and above 250 feet in a dangerous manner that would affect the safety of a manned aircraft, was fined 9,000 Singapore dollars. The man modified his DJI Mavic Air with a customised antenna to increase its operating range, flying it to a height of 431 meters (1400 ft) within an area just 1.66km away from a nearby airbase. In the previous occasion, he flew the drone in an area that required a Class 2 Activity Permit which he did have valid authorisation from the relevant authorities. In both cases, he ignored cautions provided to him from the DJI mobile application alerting him to his flight within the no-fly zone.

In this case, the subject (Tay Miow Seng) is related to a previous group and individual fined within the same context – Ed Chen Junyuan had previously breached CAAS regulations being one of the first to be fined under the new drone laws.

https://www.todayonline.com/singapore/man-fined-s9000-illegally-flying-drone-near-paya-lebar-air-base

Drones drop 3-D printed mortars on U.S. troops at oil field in NE Syria, government militia suspected

https://www.thedrive.com/the-war-zone/32514/drones-have-been-raining-small-bombs-on-american-troops-guarding-oil-sites-in-syria

Gatwick Airport installs additional 'armed-forces' level counter-drone system

https://www.bexhillobserver.net/news/people/anti-drone-equipment-bolstered-at-gatwick-airport-1-9259675

Senior Commander of terror group, al Shaabab, killed in U.S. drone strike

https://www.reuters.com/article/us-somalia-security/senior-figure-in-somalias-al-shabaab-killed-in-air-strike-state-media-idUSKBN20V0RK

https://www.voanews.com/africa/top-al-shabab-commander-believed-killed-drone-strike

Kolkata police department secures drones to monitor and track protests

https://timesofindia.indiatimes.com/city/kolkata/kolkata-cops-to-get-8-drones-to-keep-vigil-on-protests/articleshow/74485365.cms

Indian Congress MP arrested for using drone to illegally film a State Minister's property

www.newsonair.com/News?title=Telangana-Congress-MP-Revanth-Reddy-arrested-on-allegations-of-illegally-using-a-drone-camera&id=382476

Houthi rebels shoot down 'spy' drone led by Saudi international coalition force in Yemen

https://www.aa.com.tr/en/middle-east/spy-drone-shot-down-in-western-yemen-houthi-rebels/1760505

Drones to be used for surveillance and contraband delivery prevention for Indian prisons

https://timesofindia.indiatimes.com/city/chennai/drones-may-soon-monitor-tn-jails/articleshow/74543176.cms

Karimnagar Police bans use of drones until April 1st in effort to curb extremist acts

https://www.thehindu.com/news/national/telangana/ban-on-use-of-drones-till-april-1/article31010133.ece

Primitive Brazilian indigenous tribe trained to detect illegal loggers using drones

https://www.reuters.com/article/us-brazil-forest-drones-feature/flying-high-brazilian-tribe-keeps-watch-over-forest-with-drones-idUSKBN20S1N8

Harris County Police apprehend suspects utilising thermal imaging equipped drones

https://www.click2houston.com/news/investigates/2020/03/10/drones-helping-harris-county-constables-deputies-track-down-criminals/

Hillsdale County to Police use Matrice 210 drone as part of their investigation tool kit

https://www.govtech.com/public-safety/Hillsdale-PD-Receive-Drones-for-Mapping-and-Monitoring.html

1.4. WHITEPAPERS, PUBLICATIONS & REGULATIONS (P3)

U.S. Senator questions FAA on local authority to test counter-drone technology systems

https://www.aviationpros.com/airports/airport-technology/press-release/21128935/office-of-senator-edward-j-markey-senator-markey-queries-faa-about-local-authority-to-test-counterdrone-technology

https://www.markey.senate.gov/imo/media/doc/Letter%20--%20FAA%20Drone%20Testing%203-9-20.pdf

Lack of unified drone legislation within Korean agencies resulting in conflicting legal advice

www.koreaherald.com/view.php?ud=20200310000564

U.S. ban on flying drones over federal prisons reaching state-level in legislation

https://knsiradio.com/news/local-news/representative-introduces-bill-ban-flying-drones-over-state-prisons

Lack of legislation on drones flying over homes in Ireland sparks privacy law debates

http://www.mayonews.ie/news/35028-no-privacy-legislation-on-drones-flying-over-homes

"Unarmed and Dangerous: Lethal Applications of Non-Weaponized Drones" The Center for the Study of The Drone (Bard College)

https://dronecenter.bard.edu/projects/unarmed-and-dangerous/unarmed-and-dangerous-2/

"Public Safety Drones, 3rd Edition" The Center for the Study of The Drone (Bard College)

https://dronecenter.bard.edu/projects/public-safety-drones-project/public-safety-drones-3rd-edition/

"UTM Concept of Operations Version 2.0" inter-agency release between NASA and FAA

https://www.faa.gov/uas/research_development/traffic_management/

https://www.faa.gov/uas/research_development/traffic_management/media/UTM_ConOps_v2.pdf

"Categorization and classification of civil unmanned aircraft systems" ISO 21895:2020 released

https://www.iso.org/standard/72093.html

1.5. COUNTER-DRONE SYSTEMS (P4)

Indian Tech develops AI drone that can spoof, hack and change rogue drone's flight path

Researchers at the Indian Institute of Technology – Madras (IIT-M) recently developed a drone that is able to navigate autonomously and tracks onto rogue drone visually via their proprietary visual-based tracking system using drone swarm and neural networked AI. In addition, the drone is also able to jam the rogue drone's GPS navigation system and force it to divert its flight path or land off. By employing a transmitter broadcasting spoofed GPS signal, the rogue drone is tricked into receiving fake information such as latitude, longitude, altitude and time and is diverted away before any harm is caused. This technology is aimed at aiding law enforcement agencies in securing critical installations and air space.

https://www.business-standard.com/article/current-affairs/iit-madras-team-develops-ai-powered-drone-to-counter-rogue-drones-120030500568_1.html

NATO-funded Sandia National Laboratories develop drone swarm for capturing hostile drones

https://newatlas.com/aircraft/drone-swarms-net-catch-security-snl/

CerbAir shortlisted for counter drone solutions during 2024 Olympics

https://techacute.com/cerbair-shortlisted-to-provide-anti-drone-solutions-for-2024-olympic-games/

UK CPNI certifies Vorpal 'VigilAir' counter-drone system

https://www.suasnews.com/2020/03/vorpals-vigilair-counter-drone-technology-gets-uk-cpni-certification/

1.6. DRONE TECHNOLOGY (P5)

Rippel Effect showcases 40mm drone-mounted electronic triggered grenade launcher

https://www.defenceweb.co.za/aerospace/unmanned-aerial-vehicles/rippel-showcases-uav-mounted-grenade-launcher/

U.S. Air Force considering deploying armed drones in shipping containers across Pacific islands

https://www.popularmechanics.com/military/aviation/a31263609/air-force-shipping-containers/

Unmanned underwater armed drone swarms 'new warfare' against submarines

https://nationalinterest.org/blog/buzz/could-armed-drone-swarms-really-wipe-out-all-submarines-130967

EHang drone taxi company obtains operational permit from CAA in Norway

https://jobs.newscientist.com/en-au/job/1401695473/head-of-counter-drone-science-and-technology/

1.7. INFORMATIONAL (P5)

Group fined for using drone to lift man off the ground for fishing over reservoir

A group of men, previously known to the Australian Civil Aviation Authority, made their own drone capable of lifting a man seated in a chair for prolonged period while fishing. An inquiry was launched at the group after posting a video of their success story to an underground drone modding group. The

stunt was carried out at Upper Coliban Reservoir in central Victoria to which CASA ruled the men could have breached aviation regulations along with a lack of safety and quality control over the homemade drone.

The group were previously known for their stunts involving using a drone to pick up a sausage from a local hardware store Bunnings, in Sunbury, Victoria.

https://www.abc.net.au/news/2019-08-29/footage-of-man-fishing-from-drone-being-investigated-by-casa/11460604

Swiss Armed Forces awards micro-drone contract to Parrot for Short Range Recon Program

https://www.globenewswire.com/news-release/2020/02/17/1985804/0/en/Parrot-chosen-by-the-Swiss-Army-for-the-supply-of-micro-drones.html

Peterborough police to use drones for traffic collisions and accidents

https://globalnews.ca/news/6654853/peterborough-police-drone-traffic-investigations/

DroneShield secures $460,000 order from U.S. government

https://www.businessnewsaus.com.au/articles/droneshield-secures-order-from-major-us-government-agency.html

FedEx Express engages drone security at Memphis International Airport

https://www.wmcactionnews5.com/2020/03/04/fedex-express-use-unmanned-drones-security-purposes-mem/

Turkey uses "mass UAV attack points" against Syria in new emerging military doctrine

https://www.dailysabah.com/business/defense/ankaras-drone-air-force-puts-forth-new-military-doctrine-receives-wide-media-coverage

Impossible Aerospace announces drones that respond autonomously to 911 calls

https://www.prnewswire.com/news-releases/impossible-aerospace-unveils-drones-that-respond-to-911-calls-301017415.html

Lenoir Community College offers drone flight and safety classes for Public Safety officials

https://www.neusenews.com/index/2020/3/5/lcc-offers-public-safety-focused-drone-class

FAA's NPRM dampens use of drones for agriculture (Commentary)

https://www.reuters.com/article/us-usa-drones-agriculture/farmers-disappointed-by-restrictions-in-proposed-drone-rules-idUSKBN0LM20A20150218

Long range and mini drones will change the landscape of warfare and air defence (Commentary)

https://breakingdefense.com/2020/03/fvl-attack-of-the-drones/

Coronavirus fighting drones; methods, techniques and functionality in Norway

https://translate.google.com/translate?hl=en&sl=auto&tl=en&u=https%3A%2F%2Fwww.uasnorway.no%2Fslik-brukes-droner-i-kampen-mot-korona-viruset%2F

UK Department for Transport: "Head of Counter-Drone Science and Technology" position

https://jobs.newscientist.com/en-au/job/1401695473/head-of-counter-drone-science-and-technology/

Woman uses drone to look for body after tracking GPS signal to Mexico's narcotic killing fields

https://www.thestar.com.my/tech/tech-news/2020/03/09/woman-uses-drone-to-look-for-sons-body-in-mexicos-killing-fields

1.8. SOCIAL (P5)

Motion activated drones that "investigate" motion?

I'm asking too much but it rarely hurts to ask. I've got a thief/s who pours over my five acres when I'm gone. They also feed the dogs rendering them useless. Security cameras are wide angle making them useless for five acres without an elaborate set up. Tried that - the lag was also way too long with rural internet speeds.

Ongoing problem for years. They figured out how to deal with the electric fence apparatus. Almost any security measure may be overcome with sufficient study.

I'll say more if this "takes off" a bit. Too much info. too fast often gets ignored.

https://www.reddit.com/r/drones/comments/ffjdev/motion_activated_drones_that_investigate_motion/

Think Twice About Droning the Las Vegas Strip

TL;DR: Do not fly places you shouldn't fly. The FAA has better technology than you might think for tracking drones in populated areas.

… When I went outside to fly the drone around the property, within our establish permitted areas along the strip, their security protocols were triggered. Apparently along the strip there is drone sensing technology that include cameras and sensors to track altitude, speed, and flight path. The hotel/casino got pictures of our drone, which had the appropriate registration markings, myself and my spotter in our multiple take-off and landing locations and called the FAA. This triggered a legitimate FAA investigation. The reason is because the strip is well within the MacCarren airport class B airspace and is a no-fly zone unless permitted, and they are not easy permits to obtain…

https://www.reddit.com/r/drones/comments/feiyio/think_twice_about_droning_the_las_vegas_strip/

APPENDIX A: THREAT NOTIFICATION MATRIX

A.1. OBJECTIVES

The sole focus of this service is to supply organisations with key evidence, alerts and intelligence relating to (1) Drones, (2) Counter-UAS and (3) Universal Traffic Management (UTM) systems. Together, these three items are referred to as: **DCU**. This intelligence provides a defensive net for early warning systems, fine-tuning systems based on trends and providing agencies with factual evidence in support of selecting or rejecting the need for counter-solutions. High priority will be given for the following artefacts:

- Unfolding situations or incidents relating to DCU;
- Private or public-based vulnerabilities, exploits or attack vectors affecting DCU;
- Global or national regulatory changes affecting DCU;
- Remarkable vendor or brand-specific news releases.

If an artefact is released that is considered the highest priority level (P1), Notify customers will receive an email alert linking them to the intelligence details located within their Notify portal account.

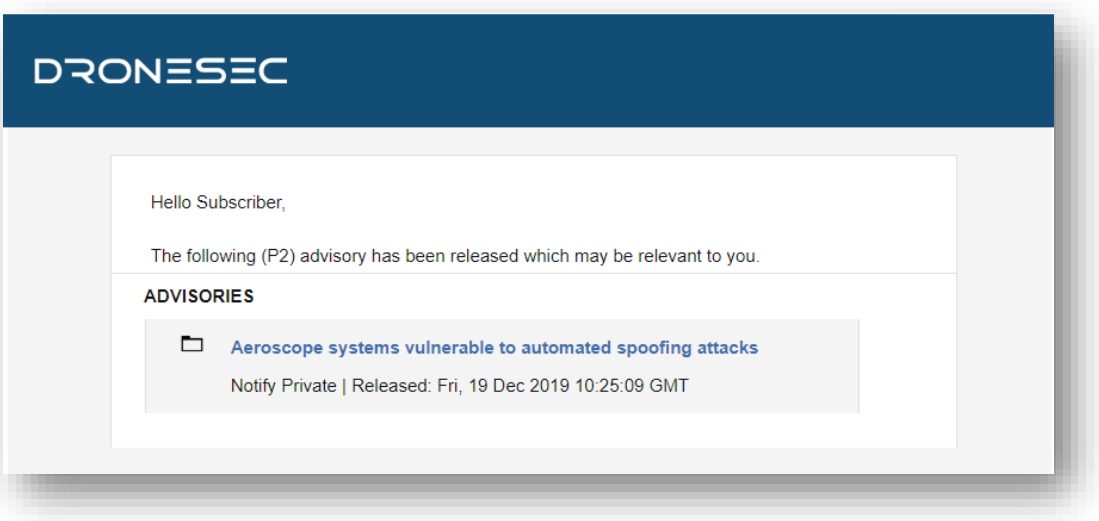

Figure 1 - A threat notification specific to a Notify customer's listed keywords.

DroneSec uses a methodology to rank, prioritise and filter intelligence pieces. This rating merges threat intelligence standards with the type of source (public, private, underground) and affected system (DCU).

Threat notifications are prioritised based on the following table:

Priority Level	Description
P1	Directly specific to a Notify customer
P2	High importance incident or situation
P3	Medium importance event or information
P4	Low interest or general news/media
P5	No direct evidence, market trends or informational

In general, (P1) alerts will only be visible to the affected customer to protect their privacy and general information security. However, abstract (P1) information will at times be shared with other Notify customers. Priority levels are often highly contentious as it requires understanding of a customer's environment, context and what might be deemed 'actionable' for them. The added spanner in the works is that DCU is made up of cyber-physical systems – there are traditional security vulnerabilities, physical and kinetic risks and even privacy, regulatory and aviation considerations in play. As a result, we set the priority level based on a number of key metrics that are very specific to our Notify customers; the more information provided about an entity, the higher the quality-gate of prioritisation we apply to our filter process.

Associated with each artefact of intelligence, you'll find a set of tags. These tags are used for indexing, searching and quickly visualising if the information is relevant to your organisation. As with any system, ours will continue to better itself as it learns more about the various artefacts that are most important to our customers, and their types of environments and systems. You'll find the tags, and examples of them, in the tables below.

There are three categories we focus on. We do not extend past these, as to keep our intelligence relevant and brief.

Tag - Categories	Description
Drones	Custom-made or Commercial-Off-The-Shelf (COTS) systems that might: • Be known as UAS[1], UAV[2], RPAS[3]… • Weigh 50g all the way to 250kgs • Are automated or manually piloted • Have associated devices, software or infrastructure
CUAS	Counter-UAS systems that might: • Be known as Counter-Drone or C-UAV

[1] UAS: Unmanned Aerial System
[2] UAV: Unmanned Aerial Vehicle
[3] RPAS: Remotely Piloted Aerial System

	• Detect and/or respond to drones • Be standalone, hand-held, static or integrated with a UTM[4] or PSIM[5] system • Have associated systems, software, infrastructure and communication protocols
UTM	Universal Traffic Management system that might: • Be known as Urban Air Mobility (UAM) or fleet management systems • Manage, track, communicate with or interdict drones and/or drone swarms • Be software and/or hardware based • Have associated systems, software, infrastructure and communication protocols

Within DCU, there are many areas of concern. For those in a position of ingesting Threat Intelligence, these are the key concerns we have determined are relevant for the information we collect.

Tag – Areas of Concern	Description
Cyber Security	Technical attack vectors, risks, threats, vulnerabilities, guides, OSINT[6], exploits or zero-days[7]. This may also contain confidentiality, Privacy, Integrity and data sovereignty artefacts
Safety	Safety concerns related to assets, environments, persons or critical systems as a direct result of the artefact. This can be caused by physical, kinetic or electronic sources.
Regulatory	Global or national law or regulatory-based amendments, announcements or ordinance that affect DCU.

Sometimes the artefacts may cover a range of sectors. For organisations looking to filter out noise, this is a key tag that will help provide insight into their chosen sectors.

Tag – Affected Sector	Description
Residential	Houses, suburban areas and private property.
Commercial	Cities, major working areas and buildings

[4] UTM – Universal Traffic Management System
[5] PSIM – Physical Security Information Management System
[6] OSINT: Open-Source Intelligence from the public domain.
[7] Zero-day: Otherwise known as an 0day or unknown, unpatched vulnerability of which the vendor does not yet know exists.

Government	Government-managed locations
Critical Infrastructure & Security	Water, energy, docks, airports, prisons, transport, stadiums and military
All Sectors	The above sectors, combined

APPENDIX B: SOURCES & LIMITATIONS

B.1. INTELLIGENCE SOURCES

DroneSec uses a variety of government, military, law enforcement, vendor and citizen-based intelligence sources. Not all of these sources are public. Sources or artefacts that cannot be verified by a third-party are clearly marked.

Source Name	Description	Intelligence Type
International Aviation Authorities	Aviation authorities are the regulatory bodies for managing air and drone activities within a range of jurisdictions. Their level of access includes pilot, airport, airprox and public incident reports.	Statistics Incidents
Academic Sources & University Agreements	Keyword alerts on various academic portals and research agreements with Higher Education provide Notify with the latest journals and papers with a focus on DCU.	Research Papers Studies and Reports
Pilots – Commercial and Private Airlines	Pilots currently active in the commercial or private airline industry.	AirProx Reports Visual Identification Reports
Commercial Partnerships	Our partners in the military defence, commercial vendor and security industry exchange intelligence with Notify.	Statistics Incidents Sentiment and chatter Vulnerabilities and Exploits
Counter-UAS vendors	Counter-UAS vendors with multiple systems in place around the globe. Their systems detect, record and (where allowed) react to malicious drones. Detection telemetry data is shared with Notify.	API and manually provided statistics
DroneSec Research	The DroneSec team conducts penetration tests, vulnerability analysis, aerial threat simulations and forensics on a variety of DCU which results in zero-day intelligence of various systems. Whilst respecting the privacy of our clients, statistics and agreed information is shared with Notify.	Incidents Whitepapers Research Papers Vulnerabilities and Exploits Open-Source Intelligence
Deep, dark and surface web communication channels	Groups, message boards and forums dedicated to modding and bypassing common drones and counter-drone controls. DroneSec actively participate and contribute in these forums to better understand the threats and risks relevant to our clients.	Manual and automated analysis based on keywords and word-clouds.
Information Security Sources	A variety of public and private sources within the Information	Vulnerabilities and Exploits Incidents

	Security, threat intelligence and Open-Source Intelligence (OSINT) communities provide Notify with recent, actionable information.	Whitepapers Research Papers Sentiment and Chatter
Newsletters and Email Lists	A variety of commercial (paid) and public sources. Gated content is exchanged with Notify within a strict agreement basis. Good examples of public sources include the Center for Study of the Drone (Bard College).	News Incidents Studies and Reports
Law Enforcement	Notify collects information from public, private and Freedom of Information (FOI) portals from Law Enforcement and shares combined metrics back to agencies.	Events Incidents Statistics
Proprietary aggregation software - Search Engines - Social Media - Government Sources	The DroneSec Notify secret sauce. Our aggregators, dorks, scripts and macros receive, filter and analyse DCU-related data, filtering for relevant and actionable information.	News Events Incidents Whitepapers Research Papers Sentiment and Chatter
Subscribers & Individuals	Subscribers of dronesec.xyz, dronesec.com and individual contacts provide manual reports to the Notify service. Contact us to see how exchanging Threat Intelligence could provide additional support to your organisation.	Incidents Research Papers Sentiment and Chatter

B.2. LIMITATIONS

Intelligence gathering reflects a point-in-time notification and/or analysis in-scope objectives (DCU). Future changes to the artefacts and the availability of new information could introduce retraction of statements or alter the wording, ratings and analysis of artefacts outlined within this report.

While DroneSec conducts in-depth fact-checking and evidence-based analysis of the information, sources and events, we aggregate information that may not be proven to be factual. Wherever possible, we try to mark this as such. DroneSec pushes for quality over quantity – but understands the needs for a broad approach to intelligence within DCU. Not all Notify reports will include analysis; delivery is subject to time the Intelligence is detected and its availability at time of Notify release.

Another limitation to the report is the lack of introductory material for a new reader to the DCU space. While news events, situations and analysis can help, newcomers to the industry can get in touch with us at info@dronesec.com or via the slack channel to seek additional clarification on topics, phrases or informational courses that might uplift their knowledge and understanding in the area.