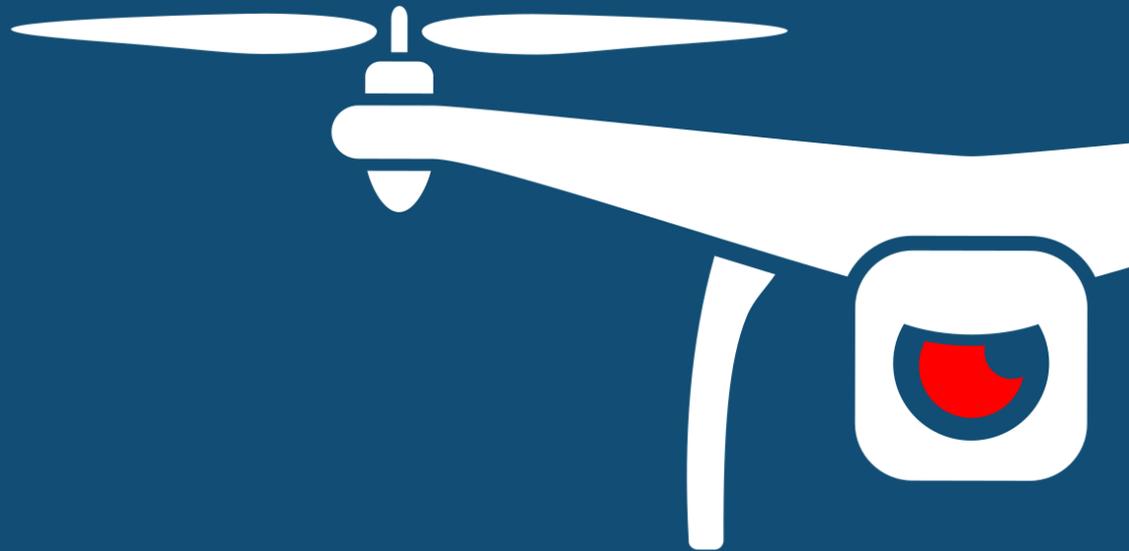




NOTIFY ISSUE #66 (PUBLIC)

WEEKLY THREAT INTELLIGENCE

18 March 2021 | v1.0 RELEASE



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

Changes to the Notify reports look and feel

As our reports evolve, so does the look and feel. The team has made it leaner, and actively working on ways of visualising key information quickly. This week, you will notice the following items are no longer contained within the document:

- *Introduction to UAS Threat Intelligence*
- *Appendix: Threat Notification and Prioritisation Matrix*
- *Appendix: Sources and Limitations*

Instead, you'll find this information available online [here at this link](#), where it can be dynamically updated and accessed at any time. This has no effect on the rest of the document.

This week for the DroneSec team, the new DJI FPV drone arrived, with our focus detecting data security, privacy and hijacking vulnerabilities within the system. We're also pleased to be shortly announcing the first Global Drone Security Network (GDSN) event #3 of 2021 occurring over two days in late April. If you didn't attend the first (in Singapore) or the second ([fully online to watch](#)), we encourage you to join as a participant or register your interest to speak – as always, we focus on the cutting edge in Drone/Counter Drone Security topics, remotely-accessible talks and no corporate sponsorships.

This week, a fascinating look at how an Israeli explosive-laden sUAS became a delayed-loitering munition, exploding when caught in the net of local Palestinian fishermen. The apparent cause – falling into the ocean in a previous flight only to detonate when placed into the fishing boat. In Ukraine, whilst there are many instances of jamming OSCE Special Monitoring Mission drones, a mid-range drone was downed by Russian armed forces, crashing near a local village. Further out in Donetsk, the DPP brought down a Ukrainian military Mavic 2 drone being used to guide mortars into enemy positions – another example of the capabilities provided by drones today.

After a number of SWAT-team intrusions utilising drones, we see a window-breaking, door-opening raid-infiltration drone emerge from firm BRINC. In Singapore, Nova Systems and OneSky have finally completed the first phase of their UTM trials in Singapore, boasting a 500 drone-at-a-time capability for remote management and observation. All these stories and more in today's report.

As always, if you have comments or feedback, want to [join in the discussion](#) in our slack discussion group, or view the system that [captures this information](#) please don't hesitate to contact us.

- *Mike Monnik, DroneSec CTO*



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1.2. NON-CONFLICT NEWS AND EVENTS (P3)

Israeli suicide drone crashed into sea, but explodes when fished up by Palestinian fishermen

<https://www.theguardian.com/world/2021/mar/11/palestinian-fishermen-killed-israeli-drone-nets>

Quarry owner sues legal solicitor drone operator for trespass and drone harassment

<https://www.irishexaminer.com/news/courtandcrime/arid-40243319.html>

1.3. CONFLICT NEWS AND EVENTS (P3)

Houthi carries out drone strikes on Abha International Airport and King Khalid Air Base

<https://sputniknews.com/middleeast/202103151082341365-yemeni-houthis-launch-drone-attack-on-saudi-arabias-abha-airport-king-khalid-airbase-reports-say/>

Arab coalition intercepts and destroys multiple Houthi drones targeting Saudi oil and residences

<https://www.arabnews.com/node/1821511/saudi-arabia>

Indian border forces open fire at Pakistani drone spotted at Bamiya town

<https://www.republicworld.com/india-news/general-news/pakistani-drone-spotted-at-indias-bamial-town-near-pathankot-bsp-opens-fire-at-uav.html>

Donetsk People's Republic downs Ukrainian military Mavic 2 drone used for mortar guidance

<https://tass.com/world/1265691>

1.4. SOCIALS (P3)

OSCE reports armed Russian forces jammed and downed their survey drones

<https://www.facebook.com/pressjfo.news/posts/1080245859134696>

Inspire 2 used to retrieve Phantom 4 stuck on rooftop of Estela de Luz monument in Mexico

<https://www.tiktok.com/@csdrones/video/6868377210542148870>

Russian FSB special forces use drone in raid against jihadist militant in Dagestan capital

<https://www.instagram.com/p/CMZugsNnZ5p/?igshid=hpy3n8n8abh0>

1.5. WHITEPAPERS, PUBLICATIONS & REGULATIONS (P3)

FAA sets final ruling for new drone rules to be in effect on April 21, 2021

https://www.faa.gov/uas/commercial_operators/operations_over_people/

India lays down monetary fines for drone operators who flout drone laws

<https://bangaloremirror.indiatimes.com/bangalore/others/illegal-use-of-drone-to-invite-fines-from-rs-25k-5-lakh/articleshow/81500003.cms>



Japan revises bill to help realise BVLOS flights in unsegregated airspace

<https://uas-japan.org/news/%e7%9c%81%e5%ba%81%e3%81%8b%e3%82%89%e3%81%ae%e3%81%8a%e7%9f%a5%e3%82%89%e3%81%9b/7767/>

United Nations ICAO updates drone standards and recommended practices

<https://www.icao.int/Newsroom/Pages/ICAO-Council-makes-progress-on-new-remotely-piloted-aircraft-system-RPAS-standards.aspx>

Death from above: How criminal organizations' use of drones threatens Americans (commentary)

<https://www.brookings.edu/blog/order-from-chaos/2021/03/11/death-from-above-how-criminal-organizations-use-of-drones-threatens-americans/>

Weaponized Drones: The Next Terrorist Modus Operandi in Southeast Asia? (commentary)

<https://thediomat.com/2021/03/weaponized-drones-the-next-terrorist-modus-operandi-in-southeast-asia/>

How to protect our critical infrastructure from attack (commentary)

<https://www.ifsecglobal.com/borders-infrastructure/how-to-protect-our-critical-infrastructure-from-attack/>

Pentagon unveils details on effort to equip its services with massive swarms of deadly drones (commentary)

<https://www.thedrive.com/the-war-zone/39814/pentagon-unveils-details-on-effort-to-equip-its-services-with-massive-swarms-of-deadly-drones>

Survey reveals that traditional counter-drone technologies are viewed as inadequate (commentary)

<https://www.hstoday.us/industry/survey-reveals-that-traditional-counter-drone-technologies-are-viewed-as-inadequate/>

1.6. COUNTER-DRONE SYSTEMS (P4)

US DoD seeks data fusion system architecture for counter drone systems (tender)

<https://beta.sam.gov/opp/a5d5a0b659d8403892e3c78598cfc586/view>

Israel upgrades Iron Dome rocket defence system to intercept drone swarms (update)

<https://www.stripes.com/news/middle-east/israel-announces-upgrade-of-iron-dome-rocket-defense-system-1.666054>

IAI and EDGE to jointly develop advanced counter drone system to fight against Houthi

<https://www.commercialdroneprofessional.com/uae-and-israel-collaborate-on-counter-uas-solution/>

Barzan Holdings and Rheinmetall to develop counter drone system for upcoming World Cup

<https://menafn.com/1101758677/Qatars-anti-drone-solution-aims-to-make-sport-events-safer>

Drone Defence and Scientel Solutions partner to form Starlyng Sky Security counter drone

<https://scientelsolutions.com/starlyng-sky-security-launches-providing-counter-drone-solutions-across-north-south-and-central-america/>



Israeli MoD starts research programme to develop long range drone-based counter drone lasers

<https://www.unmannedairspace.info/counter-uas-systems-and-policies/israel-starts-research-into-long-range-counter-uas-drone-based-lasers/>

Russian scientists patent rocket-propelled net to capture drones in flight

https://www.defenseworld.net/news/29120/Russia_Patents_a_Rocket_propelled_Net_to_Ensnare_Drones_in_Flight

1.7. UTM SYSTEMS (P4)

Nova Systems and OneSky complete first UTM trial in Singapore, supports 500 at one time

<https://www.todayonline.com/singapore/explainer-how-successful-software-trial-singapore-step-closer-drone-deliveries-flying-cars>

Israel to trial autonomous urban airspace management system with twenty drones

<https://www.urbanairmobilitynews.com/utm/israel-to-trial-autonomous-urban-airspace-management-system-with-20-drones/>

NASA tests compact radars by Echodyne on drones flying in crowded airspace

<https://www.geekwire.com/2021/nasa-drone-test-demonstrates-use-case-compact-radars-built-bill-gates-backed-echodyne/>

Why open-air testing is not enough for BVLOS drone flights and what to do about it (commentary)

<https://insideunmannedsystems.com/why-open-air-testing-is-not-enough-for-bvlos-uav-flights-and-what-to-do-about-it/>

1.8. INFORMATIONAL (P4)

Drone operator helps find missing woman in wooded area of Fayette County, Pennsylvania

<https://www.post-gazette.com/news/crime-courts/2021/03/11/Drone-operator-finds-body-Fayette-County-melanie-prokop-missing-since-January/stories/202103110165>

Smith County police deploy drone to search for armed suspect involved in a home burglary

https://tylerpaper.com/news/crime/police-using-drone-to-search-for-armed-and-dangerous-man-involved-in-home-invasion/article_e57ac0a8-8474-11eb-871a-7f67c8360009.html

DJI Inspire drone used to locate missing girl in Franklin Park

<https://www.fox6now.com/video/910534>

Temiskaming Police's quick deployment of drone helped saved life of unresponsive man

<https://www.baytoday.ca/local-news/drone-used-to-rescue-person-off-lake-near-latchford-3537997>



1.9. DRONE TECHNOLOGY (P5)

Defense Innovation Unit (DIU) lays out new Blue sUAS 2.0 requirements

<https://www.diu.mil/work-with-us/open-solicitations>

Russian supersonic drone, Thunder, will control swarms of decoy drones to expose air defences

<https://bulgarianmilitary.com/2021/03/12/russian-drone-will-control-a-swarm-of-strike-drones-source-said/>

Researchers from RMIT University in Australia design quieter drone propellers

<https://www.rmit.edu.au/news/all-news/2021/mar/quiet-propellers>

BRINC introduces LEMUR drone for SWAT teams, capable of smashing glass and opening doors

<https://dronedj.com/2021/03/10/new-swat-drone-has-whirling-blade/>

Sagetech and American Aerospace partner to provide Detect and Avoid for AiRanger drones

<https://sagetech.com/news/sagetech-avionics-and-american-aerospace-sign-mou-to-integrate-detect-and-avoid-system/>



For Appendix items please click [this link](#).

