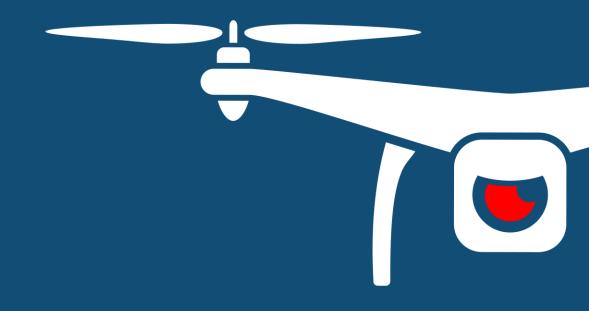


NOTIFY ISSUE #103 (PUBLIC)WEEKLY THREAT INTELLIGENCE

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DOCUMENT CONTROL

PREPARATION

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This document is a summary of real-time incidents released within the <u>Notify UAS Threat Intelligence</u> <u>Platform</u>. If you have been forwarded this document, subscribe for future updates: <u>here</u>.



TABLE OF CONTENTS

1. Threat Intelligence 4
1.1. Monthly Roll-Up 4
1.2. Featured Advisories12
1.3. Non-Conflict News and Events (P3)14
1.4. Conflict News and Events (P3)15
1.5. Socials (P3)19
1.6. Whitepapers, Publications & Regulations (P4)20
1.7. Counter-Drone Systems (P4)20
1.8. UTM Systems (P5)21
1.9. Informational (P5)21
1.10. Cyber and Data Security (P5)22
1.11. Drone Technology (P5)22



1. THREAT INTELLIGENCE

1.1. MONTHLY ROLL-UP

As we enter a new month, Notify features an aggregated summary of drone incidents, types and affected sectors in 2021 and collated numerical data on drone incidents. Extended analytics with full database-searchable functionality is only offered to our paid members via the DroneSec Notify Platform.

Below you will find some handy statistics to measure correlation, location and systems involved over data we have collected for November 2021. Anything we have missed? Anything you would like to see? Drop us a note at info@dronesec.com to get in touch with the team.



Figure 1: Can't see this? Contact us to sign up for Notify PRIVATE





Figure 2: Can't see this? Contact us to sign up for Notify PRIVATE





Figure 3: Can't see this? Contact us to sign up for Notify PRIVATE





Figure 4: Can't see this? Contact us to sign up for Notify PRIVATE





Figure 5: Can't see this? Contact us to sign up for Notify PRIVATE



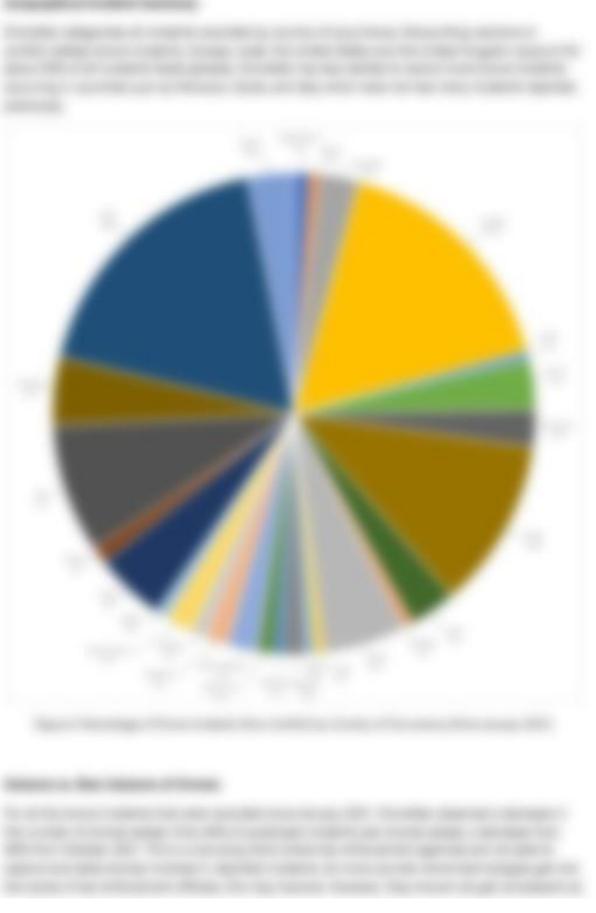


Figure 6: Can't see this? Contact us to sign up for Notify PRIVATE



Figure 7: Can't see this? Contact us to sign up for Notify PRIVATE





Figure 8: Can't see this? Contact us to sign up for Notify PRIVATE



1.2. FEATURED ADVISORIES

The prioritisation table and how we filter, analyse and visualise the intelligence we collect is located at the end of the document.

Intrusion and Trespass	Priority
Three arrested for using drone to deliver contraband into Russian Prison, disguised as police drone	P2

Summary

Three men were arrested for attempting to deliver a drone into a prison in Russia.

Overview

A drone in black body kit with the stickers "Police" pasted to it were seized by prison officers in Russia. Three men were apprehended for attempting to deliver mobile phones, sim cards and phone chargers into the restricted area. The contraband was stored in white plastic bag and bubble wrapped before being tied onto the drone via black duct tape. It was not stated how the prison officers manage to seize the drone and apprehend the operators.



Figure 9: Drone and contraband seized



Figure 10: Contraband strapped beneath the drones with Police sticker on it



Analysis

This incident is interesting as the drone operators deliberately tried to disguise their drone as a Police drone by having the "Police" sticker pasted all over the drone. Although it was a futile attempt, this is one of the first few deceit incidents recorded. Deception techniques range from painting the drone blue (to match the sky), grey (to blend in with clouds) and removing LEDs/lights during night flights. However, labelling as "police" may deceive public bystanders into believing the drone is on an official mission, or prevent non-targeted prison inmates from approaching the drone.

Threat Actor Group

Prison Drone Delivery Groups: https://help.dronesec.com/en/articles/4637701-prison-drone-delivery-groups

Reference

https://t.me/mash iptash/2086

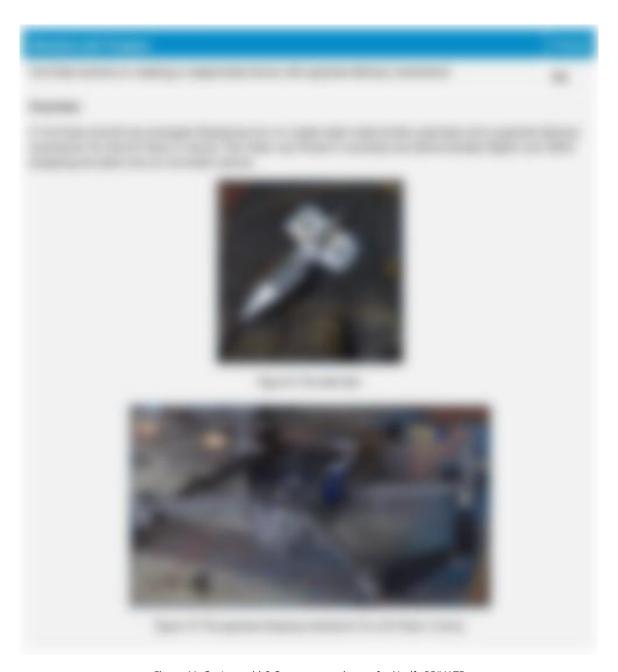


Figure 11: Can't see this? Contact us to sign up for Notify ${\sf PRIVATE}$





Figure 12: Can't see this? Contact us to sign up for Notify PRIVATE

1.3. NON-CONFLICT NEWS AND EVENTS (P3)

Ukrainian Police DJI Matrice 300 drone shot down unintentionally by Ukrainian Army



Figure 13 DJI Matrice 300 that was shot down by Ukrainian Army

https://ria.ru/20211125/bespilotnik-1760758969.html

https://t.me/urd_news/16011



Japan reports losing contact of ScanEagle drone off the coast of Kagoshima Prefecture

https://www3.nhk.or.jp/nhkworld/ru/news/334598/

Riga Airport suspends flight for half an hour due to drone sighting, Latvia

https://www.aex.ru/m/news/2021/11/26/238388/

India reports at least 67 Chinese-made drone intrusions from Pakistan into India for 2021

https://www.business-standard.com/article/current-affairs/small-chinese-drones-carrying-drugs-frequently-intrude-into-india-bsf-dg-121113001571 1.html

Pilot reports drone sighting at Calgary Airport, Canada

https://avrodex.com/view/2021C4751

Brazilian Police releases video of drones used to drop contraband into Proto Alegre prisons

https://www.youtube.com/watch?v=73iBQdnBObM

Flock of bird crashes DJI Mavic 2 during filming at Kuril islands, Russia

https://astv.ru/news/society/2021-11-28-ochen-krasivaya-ptichka-na-kurilah-effektno-utopila-dron-novosibirskogo-rezhissera

Illegal drone flight records video and flies over protestors in Melbourne, Australia

https://www.youtube.com/watch?v=g 3aQW-Peas

Illegal drone flight records video and flies over protest in Sydney, Australia

https://t.me/UncensoredPatriot/38057

1.4. CONFLICT NEWS AND EVENTS (P3)

Arab Coalition reports Houthi surveillance drone activities at Sanaa Airport, Yemen

https://english.aawsat.com/home/article/3328276/arab-coalition-detects-hostile-houthi-activity-sanaa-airport

Drone strike from Saudi-Yemen conflict damages school, 10 students injured, Al-Fakher, Yemen

https://www.alyemenione.com/201449/%D8%AC%D8%B1%D9%8A%D9%85%D8%A9-22/

Arab coalition destroys Houthi drone launched from Sanaa airport, Yemen

https://www.arabnews.com/node/1978631/saudi-arabia

Ukrainian drone drops anti-tank grenade on DPR militia, Donbas

https://www.reddit.com/r/CombatFootage/comments/r1okby/ukrainian_drone_quadcopter_dropping_anti_tank/

Ukraine releases video of warheads dropped from drones onto DPR forces in Donbass

https://lenta.ru/news/2021/11/25/bpla/

Two explosives dropped from Tigray drone strikes, damaging a school and homes, Ethiopia

https://t.me/Tsegaye R Ararsaa/1694





Rased suicide drone with 10kg of explosives shot down over Kerbala by Iraqi forces



Figure 14: Rased drone shot down by Iraqi forces

https://fa.shafaqna.com/news/1268234/

Ukrainian R-18 drone with explosives taken down via jammers by DPR forces in Donetsk



Figure 15: Ukrainian R-18 drones with explosives (in blue)



Figure 16: Explosives when detached from the R-18 drone

 $\underline{https://www.donbass-insider.com/fr/2021/11/26/la-milice-populaire-de-la-rpd-capture-un-drone-de-armee-ukrainienne-charge-explosifs/$



Houthi DJI Mavic drone with warhead shot down by Yemeni forces in Marib



Figure 17: DJI Mavic drone with explosive warhead shot down by Yemeni forces

https://t.me/vorposte/10752

Yemeni Army downs Houthi suicide drone flying towards Al-Jawf Governate

https://twitter.com/AlArabiya Brk/status/1463874596961144836

Drone strikes near hospital and drones sighted over Albukmal and Deir ez-Zur, Syria

https://t.me/adpffarsi/46659

DPR militants open drone workshop to build suicide drones and improvised explosives



Figure 18: Various drones found in militant workshop





Figure 19: Improvised warheads found in militant workshop

https://twitter.com/Mukhtarr_MD/status/1463832731746459649

At least 20 killed and wounded by Houthi drones and artillery strikes, Hays, Yemen



Figure 20: Seized Houthi suicide drone used to strike Hays

https://t.me/Algodsona/3516



Arab coalition takes down Houthi Rased drone over Marib, Yemen



Figure 21: Rased drone seized by Arab coalition

https://t.me/siyasat_online/75794

Russian Orlan 10 drone crash lands in northern Syria, drone seized by Free Syrian Army



Figure 22: Russian made Orlan-10 drone crashed in northern Syria

https://t.me/novinaerospace/40123

1.5. SOCIALS (P3)

Forum discusses drone intrusion of privacy and ways to counter rogue drone monitoring

https://www.reddit.com/r/drones/comments/r3b6kg/neighbor using drone to spy what can be done to/

DJI Matrice films alleged weapons and drones deal between Mexican military and cartel group

https://www.cofutures.net/post/drone-video-of-the-purported-transfer-of-mexican-army-sedena-weapons-and-explosive-drones-to-cu

https://twitter.com/narcoblogger/status/1465726314518831115



1.6. WHITEPAPERS, PUBLICATIONS & REGULATIONS (P4)

Man arrested for manufacturing bombs and drones for Mexican cartel members (UPDATE)

https://www.cofutures.net/post/bad-boy-and-other-drone-weaponeer-gang-members-arrested-in-mexico-city

https://www.academia.edu/62516807/Bad Boy and other Drone Weaponeer Gang Members Arrested in Mexic o City CSRL and CJNG Provision Links

France CAA publishes SORA risk assessment guide for safe drone operations

https://www.unmannedairspace.info/latest-news-and-information/french-regulator-publishes-sora-guide-sets-out-expectations-for-safe-drone-operations/

Mexico's drug war fought with drones, human shields, gunships (commentary)

https://www.pbs.org/newshour/world/mexicos-drug-war-fought-with-drones-human-shields-gunships

The drone threat and how to prepare for it (commentary)

https://telegra.ph/Ugroza-ot-dronov-i-kak-k-nej-podgotovitsya-11-27

Russia's jamming could isolate Ukrainian troops so artillery can destroy them (commentary)

https://www.forbes.com/sites/davidaxe/2021/11/23/russias-jamming-force-could-isolate-ukrainian-troops-so-artillery-can-destroy-them/amp/

Nammo fits its anti-tank rocket launcher to a small drone, plans swarms of them (commentary)

https://www.forbes.com/sites/davidhambling/2021/11/29/nammo-fit-their-anti-tank-rocket-launcher-to-adrone/

China equips its drones with mortar shells, grenade launchers and machine guns (commentary)

https://eurasiantimes.com/china-equips-its-drones-with-mortar-shells-grenade-launchers-even-machine-guns-as-india-deploys-soldiers-to-lac/

A cascading catastrophe: the drone threat to critical infrastructure (commentary)

https://thebulletin.org/2021/11/a-cascading-catastrophe-the-drone-threat-to-critical-infrastructure/

1.7. COUNTER-DRONE SYSTEMS (P4)

Sao Paulo to use counter drone weapons to prevent prison deliveries via drones

https://g1.globo.com/jornal-nacional/noticia/2021/11/15/sao-paulo-passar-a-utilizar-arma-antidrone-para-impedir-entregas-aereas-em-presidios.ghtml

Russia's upgraded Pantsyr anti-aircraft system can fight strike drones at a range of 30km

https://tass.com/defense/1368227

Russian tank fitted with protective roof to possibly protect against drone strike





Figure 23: Tank with protective armour, possible to defend against drone attacks

https://twitter.com/AlexKokcharov/status/1463221816307208196

1.8. UTM SYSTEMS (P5)

Pontoise Cormeilles Airport inaugurated to test EVTOL drone taxis, France

https://actu.fr/ile-de-france/cormeilles-en-vexin 95177/les-taxis-volants-du-futur-vont-decoller-a-l-aerodrome-de-pontoise 46796909.html

HHLA Sky and Iris Automation to collaborate on controlling 100 drones from centralised centre

 $\frac{https://www.unmannedairspace.info/latest-news-and-information/hhla-and-iris-automation-link-to-provide-safe-control-of-100-drones-through-a-single-centre/$

1.9. INFORMATIONAL (P5)

FAA launches 12 days of drone safety campaign

https://www.unmannedairspace.info/uncategorized/faa-launches-2021-holiday-twelve-days-of-drones-safety-campaign/

Drones too close to aircraft spark concerns in Tampa Bay, Florida USA (commentary)

https://www-wfla-com.cdn.ampproject.org/c/s/www.wfla.com/8-on-your-side/drones-sparking-increasing-concerns-in-tampa-bay-skies/

DZONE DZONE



1.10. CYBER AND DATA SECURITY (P5)

Sevastopol scientist to design artificial immune system to protect drones from cyberattacks

https://t.me/binarcat/804

1.11. DRONE TECHNOLOGY (P5)

EHang completes autonomous air taxi trial in Bali, Indonesia

https://www.intelligent-aerospace.com/unmanned/article/14214741/ehang-216-autonomous-aerial-vehicle-completes-debut-flight-demo-in-bali-indonesia

Chinese firm develops swarming drones to besiege and expel surface vessels

 $\underline{\text{https://www.maritime-executive.com/article/chinese-firm-develops-swarming-drones-to-besiege-and-expel-vessels}$



For Appendix items please click this link.