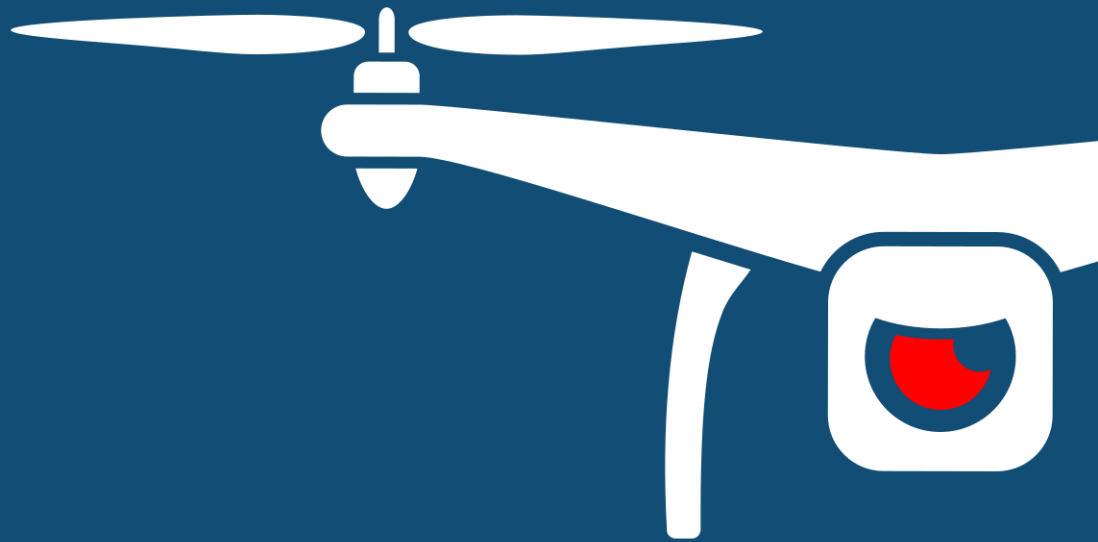




DRONE SEC

NOTIFY ISSUE #84 (PRIVATE) WEEKLY THREAT INTELLIGENCE

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UAS HACKING, HARDENING AND DEFENCE

DOCUMENT CONTROL

PREPARATION

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1. THREAT INTELLIGENCE

1.1. FEATURED ADVISORIES

| Intrusion and Trespass | Priority |
|---|----------|
| Pakistani drone intrudes into Indian Airspace at Pallanwalla, Akhnoor | P2 |
| <p><i>This is a community submission validated by the DroneSec threat intel team.</i></p> <p>Summary</p> <p>Drone intrudes into Indian airspace along the line of control (LOC) between Pakistan and India and was shot at by Indian security forces.</p> <p>Overview</p> <p>Only one day after a drone incident occurred in Jammu, a drone that has been reported as coming from the Pakistani side of the border appeared over Indian airspace. Soldiers alerted to the quadcopter drone attempted to bring the drone down using small arms fire. Indian soldiers were unsuccessful in their attempts to shoot down the drone and it was observed flying back across the Pakistani side of the LoC. The incident took place in the Pallanwalla sector in Akhnoor on the 14th of July 2021.</p> <p>Analysis</p> <p>Based on open-source reporting, there have been several drone incidents along the Indian-Pakistan line of control in recent days. This is an evolving situation and official sources are yet to publicly attribute these drone incidents to a threat actor. These drone incidents are not isolated to the Pallanwalla sector but are occurring along the entire LoC.</p> <p>The incident that occurred on June 27th at Jammu Air Force Base involved the dropping of Improvised Explosive Devices (IED's) and there have been at least a dozen drone incidents in along the LoC since. The incident in Pallanwalla did not involve IEDs and three hypotheses as to why the drone flew across the LoC include:</p> <ul style="list-style-type: none"> - A threat actor attempting to honeypot counter drone systems - Conduct surveillance against targets for further attacks - IED attack in progress that was prevented by being detected early <p>Recommendation</p> <p>The Indian government is advised that they should continue to monitor and track these intrusions into Indian airspace and have well communicated procedures that security forces understand how to enact when Drones are detected. Procedures for security forces should consider the need for capturing evidence, even if bringing down and physically capturing the drones is not achievable, photographic, and video evidence of drone incursions can be advantageous.</p> <p>The Indian security forces may consider implementing counterintelligence activities such as creating outposts that conduct surveillance. They may use detection systems to passively capture data relating to this surveillance activity and attempt to correlate with other drone incidents along the line of control. Understanding who the threat actors are and their motivations for sending drones over the LoC will allow for more well considered courses of action.</p> <p>Reference</p> <p>https://www.republicworld.com/india-news/general-news/drone-spotted-near-vital-army-installation-along-the-loc-in-jammu.html</p> <p>https://www.hindustantimes.com/india-news/another-pak-drone-intrudes-indian-space-on-loc-fired-upon-by-soldiers-101626363128547.html</p> | |



| Intrusion and Trespass | Priority |
|--|----------|
| Drone spotted delivering cigarettes to quarantine hotel in Gold Coast, Australia | P2 |
| <p>Summary</p> <p>A woman undergoing hotel quarantine received a packet of cigarettes delivered via drone, breaching isolation conditions.</p> <p>Overview</p> <p>A hotel staff member of the Crown Plaza Surfers Paradise at Broadbeach in Gold Coast spotted a drone flying near the hotel, which was serving as a quarantine location for anyone undergoing isolation due to COVID-19. The drone was observed delivering a packet of cigarettes to a woman in quarantine by flying to the woman's balcony. The staff spotted the exchange between the drone and the lady and immediately notified the police. The lady was interviewed and the packet of cigarette was seized; a fine of \$1,300 for the stunt was imposed. The drone and the operator were also seized and apprehended with potential fines by CASA for breaching safe flying regulations. It was also noted that the man and woman were spotted outside the hotel a week ago with the former operating the drone in the vicinity, possibly performing reconnaissance.</p> <p>Analysis</p> <p>With the rise in use cases of drones, more people are seeing the benefits of drones to circumvent regulations. The barrier to entry for drones is low with drones being a cost-effective technique with reduced risk of being spotted as well as a low skill barrier technology. When used in the right conditions, drones can allow malicious users to operate safely with a low risk of being apprehended by law enforcement agencies. In this case, the operator likely underestimated how visible the drone would be in broad daylight, allowing the exchange to be spotted.</p> <p>Reference</p> <p>https://www.9news.com.au/national/hotel-quarantine-woman-caught-receiving-illegal-delivery-of-cigarettes-from-drone/ac777220-b441-46df-9793-8076f3383918</p> | |

1.2. NON-CONFLICT NEWS AND EVENTS (P3)

Franco-Spanish raid busts criminals using modified drone to smuggle narcotics

<https://dronedj.com/2021/07/14/franco-spanish-raid-busts-criminals-using-souped-up-drone-to-transport-drugs/>

Drunk droning arrest in Aichi Prefecture, Japan

<https://soraneews24.com/2021/07/19/drun-droning-arrest-first-of-its-kind-in-aichi-prefecture/>

Emperor Valley Zoo warns public after incident in giraffe enclosure

<https://newsday.co.tt/2021/07/18/zoos-plea-after-drone-flown-in-giraffe-enclosure/>

Drones delay airborne response to Alder Creek fire

<https://www.krtv.com/news/fire-watch/drones-delay-airborne-response-to-alder-creek-fire>

Drones fall at light show in China

<https://dronedj.com/2021/07/17/drones-come-down-at-another-drone-light-show-in-china/>

Drone sighted in controlled airspace in Quebec, Canada

<https://avrodex.com/view/2021Q1844>



Drone sighted in controlled airspace in Ontario, Canada<https://avrodex.com/view/2021O0881>**Drone sighted at Montréal-Pierre International Airport**<https://avrodex.com/view/2021Q1857>**Man shoots down sheriff's office drone investigating a possible burglary**<https://www.fox35orlando.com/news/man-arrested-after-lake-county-sheriffs-drone-is-shot-down>

1.3. CONFLICT NEWS AND EVENTS (P3)

Israeli military drone crashed in Lebanon due to malfunction (UPDATE)<https://www.timesofisrael.com/idf-says-drone-crashed-in-lebanon-due-to-malfunction-no-data-leaked/>**Four drones spotted in Jammu and Kashmir**<https://www.indiatoday.in/india/story/drones-spotted-in-satwari-and-miran-sahib-area-of-jammu-1828883-2021-07-16>**Pakistani drones spotted in Jammu near Dera Baba Nanak**<http://www.uniindia.com/punjab-drone-spotted-near-dera-baba-nanak-town-post/north/news/2450333.html>**Iraqi forces intercept ISIS drone in western Iraq**<https://www.middleeastmonitor.com/20210718-2-civilians-killed-drone-downed-in-iraq/>

1.4. WHITEPAPERS, PUBLICATIONS & REGULATIONS (P4)

Indian government repeals drone laws

<https://dronedj.com/2021/07/14/india-drone-rules-2021-law/>

Hong Kong to take up legislation requiring drone users to register, train and pass tests

<https://www.scmp.com/news/hong-kong/transport/article/3141130/hong-kong-require-drone-users-register-train-and-pass>

Joint European sYstem for Countering UAS (JEY-CUAS) launches 15M Euro project

https://ec.europa.eu/defence-industry-space/system/files/2021-06/EDIDP2020_factsheet_CUAS_JEY-CUAS.pdf

Drone incidents with US jetliners are on the decline (commentary)

<https://www.bloomberg.com/news/articles/2021-07-16/drone-jetliner-encounters-fall-sharply-on-software-fix-outreach>

Military expert reports on the importance of counter drone capabilities in Taiwan (commentary)

<https://www.taiwannews.com.tw/en/news/4251885>

Counter drone technology still needs R&D to be viable (Commentary)

<https://theprint.in/opinion/brahmastra/soft-kill-or-hard-kill-theres-no-foolproof-system-to-counter-drones-india-needs-rd/697012/>

As drone popularity and potential risk soars, so does counter-drone technology (commentary)

<https://www.dhs.gov/science-and-technology/news/2021/07/16/feature-article-drone-popularity-and-potential-risk-soars-st-prepares>

Drones made in America: The FTC crackdown on fraudulent labelling (commentary)

<https://dronelife.com/2021/07/15/drones-made-in-america-the-ftc-crackdown-on-fraudulent-labeling-and-what-that-means-for-the-industry/>

Pentagon drones 8 to 14 times costlier than banned Chinese COTS drones (commentary)

<https://www.ft.com/content/dd2e936e-5934-49f1-8aa6-29dea9a41b18>

Emergency drone technology and the protests in South Africa (commentary)

<https://dronenews.africa/policing-drones-riots-south-africa/>

1.5. COUNTER-DRONE SYSTEMS (P4)

Thales and Operational Solutions to develop counter drone systems for civilian aviation facilities

<https://www.janes.com/defence-news/news-detail/thales-operational-solutions-team-up-on-new-counter-uas-technologies>

Soukos Robots exhibits high energy laser counter drone technology

<https://www.unmannedairspace.info/counter-uas-systems-and-policies/soukos-robots-exhibits-counter-drone-high-energy-laser-technology-at-defea-2021-defence-exhibition-in-athens/>



US Navy deploys DroneSentry-X to counter drone swarms

<https://eurasianimes.com/x-factor-us-navy-deploys-a-sentry-guard-that-can-knock-down-chinese-swarm-drones-watch/>

Patriot missiles shoot down drones in joint exercise, Australia

<https://www.washingtontimes.com/news/2021/jul/18/historic-test-us-patriot-missiles-shoot-down-drone/>

Russia to use interceptor drones to protect airports

<https://tass.com/defense/1315261>

1.6. INFORMATIONAL (P5)

Europe's Flying Forward research project launch UAM Explained (UAME) initiative

<https://www.unmannedairspace.info/latest-news-and-information/european-research-groups-launch-uam-explained-initiative-to-share-knowledge-and-expertise/>

New interactive tool to explore USA FAA drone incident reports

<https://www.thedrive.com/the-war-zone/41526/the-faa-has-collected-thousands-of-drone-incident-reports-our-new-tool-lets-you-explore-them>

Dubai police will use citywide network of drones for incident response

<https://www.newscientist.com/article/2284387-dubai-police-will-use-citywide-network-of-drones-to-respond-to-crime/>

Hayward Police to deploy drones for incident response

<https://www.eastbaytimes.com/2021/07/19/hayward-police-get-the-ok-to-purchase-a-drone/>

1.7. UTM SYSTEMS (P5)

Naviar UTM to digitise drone flight authorisations in Denmark

<https://www.unmannedairspace.info/latest-news-and-information/naviair-utm-prepares-to-digitise-drone-flight-authorisations-in-danish-airspace/>

Germany's first drone traffic system starts in Hamburg

<https://www.constructionweekonline.in/projects-tenders/18659-germanys-first-drone-traffic-system-starts-in-hamburg>

Europe SUGUS demonstrates successful integration of live drone operations in a UTM environment

<https://www.unmannedairspace.info/latest-news-and-information/sugus-research-demonstrates-successful-integration-of-live-drone-operations-in-a-utm-environment/>



1.8. SOCIALS (P5)

US Army loitering munition demonstration

<https://www.youtube.com/watch?v=KIURqUZIY4I>

1.9. DRONE TECHNOLOGY (P5)

Asio Technologies launches jam-proof optical drone navigation system

<https://www.unmannedairspace.info/latest-news-and-information/asio-technologies-launches-jam-proof-optical-drone-navigation-system/>



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

