

Reference Material

Ukraine: Cyber Operations and Digital Technologies

What we know (or think we know) so far and implications for immediate crisis management, conflict resolution and future multilateral negotiations.

C.Kavanagh, Dept. War Studies, King's College London/ Carnegie Endowment for International Peace

TIMELINES/RESOURCES ON CYBER ATTACKS

Ukraine Crisis Digital Resource Centre, ESET

<https://www.welivesecurity.com/category/ukraine-crisis-digital-security-resource-center/>

Threat Analysis Group, TAG, 'An Update on the Threat Landscape'.

<https://blog.google/threat-analysis-group/update-threat-landscape-ukraine/>

Last updated 08-03-2022

Cyber Peace Institute, 'Ukraine: Timeline of Cyber Attacks on Critical Infrastructure and Civilian Objects'.

Last updated 17-03-2022.

<https://cyberpeaceinstitute.org/ukraine-timeline-of-cyberattacks/>

[Webpage] Microsoft Security Response Centre

'Cyber Threat Activity in Ukraine: analysis and resources.'

Last updated 02-03-2022

<https://msrc-blog.microsoft.com/2022/02/28/analysis-resources-cyber-threat-activity-ukraine/>

Kevin Koehler on Twitter. Last updated 25-02-2022

<https://twitter.com/kevinkohlerfm/status/1497131442123550720?s=21>

EXPERT COMMENTARY ON CYBER OPERATIONS IN UKRAINE

[News article – Opinion] 18-03-2022

Thomas Ridd, 'Why You Haven't Heard About the Secret Cyberwar in Ukraine'. *The New York Times*

<https://www.nytimes.com/2022/03/18/opinion/cyberwar-ukraine-russia.html?referringSource=articleShare>

[Podcast] 14-03-2022

Cyberlaw Podcast, Episode 399.

<https://podcasts.apple.com/us/podcast/the-cyberlaw-podcast/id830593115?i=1000554024062>

[Webinar] 14-03-2022

CSIS, 'Cyber in the Ukraine Invasion'.

<https://www.csis.org/events/cyber-ukraine-invasion-0>

[News article - Opinion] 12-03-2022

KimZetter, 'Not the time to go poking around: How former U.S. hackers view dealing with Russia'. *Politico*.

<https://www.politico.com/news/2022/03/12/cyber-russia-hacking-security-00016598>

[News article – Opinion] 11-03-2022

Farhad Manjoo, 'The Ukrainian Cyberwar That Wasn't'. *The New York Times*

https://www.google.ie/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjD7u_z69H2AhUhr6QKHSs0DXkQFnoECAoQAQ&url=https%3A%2F%2Fwww.nytimes.com%2F2022%2F03%2F11%2Fopinion%2Frussia-ukraine-cyberattacks.html&usq=AOvVaw3Mufln1xDSVOfv3DsS7o2f

[ThinkTank] 10-03-2022

Marcus Willett, 'Russia-Ukraine: Pressing the right button at the right time'.

<https://www.iiss.org/blogs/analysis/2022/03/russia-ukraine-pressing-the-right-button-at-the-right-time>

[Think-Tank] 09-03-2022

Lt. Col. Tyson Wetzel and Barry Pavel, 'What are the risks and benefits of US/NATO military options in Ukraine? Our strategic risk calculator has options. Atlantic Council.

<https://www.atlanticcouncil.org/content-series/the-big-story/what-are-the-risks-and-benefits-of-us-nato-military-options-in-ukraine-our-strategic-risk-calculator-has-answers/>

[Article] 09-03-2022

Jason Healey, 'Preventing escalation in Ukraine and after', *War on the Rocks*

<https://warontherocks.com/2022/03/preventing-cyber-escalation-in-ukraine-and-after/>

[Think-Tank] 09-03-2022

Rafal Rohozonski, 'The Missing "Cybergeddon": what Ukraine can tell us about the future of warfare'.

<https://www.iiss.org/blogs/survival-blog/2022/03/the-missing-cybergeddon-what-ukraine-can-tell-us-about-the-future-of-cyber-war>

[Think-Tank] 09-03-2022

Sam Cranny-Evans and Thomas Withington, 'Russian Comms in Ukraine: A World of Hertz'.

<https://rusi.org/explore-our-research/publications/commentary/russian-comms-ukraine-world-hertz>

[Commentary] 08-02-2022

Lennart Maschmeyer and Nadia Kostyuk, 'There is no cyber 'shock and awe': Plausible threats in the Ukrainian conflict'. War On the Rocks.

<https://warontherocks.com/2022/02/there-is-no-cyber-shock-and-awe-plausible-threats-in-the-ukrainian-conflict/>

[Website] 07-03-2022

'Cyber in the Raw'

<https://gru.gq/2022/03/07/cyber-in-the-raw/#comments>

[Opinion piece] 07-03-2022

Erica D. Lonergan, Shawn W. Lonergan, Brandon ano and Benjamin Jensen

'Putin's invasion of Ukraine didn't rely on cyberwarfare. Here's why.' *New York Times*

<https://www.washingtonpost.com/politics/2022/03/07/putins-invasion-ukraine-didnt-rely-cyber-warfare-heres-why/>

[Social Media] 06-03-2022

'The War in Ukraine and Cyber Operations', Alperovitch Institute for Cybersecurity Studies, John Hopkins. Moderated by Tom Ridd.

https://soundcloud.com/alperovitch/the-war-in-ukraine-and-cyber-operations?utm_source=mobi&utm_campaign=social_sharing&utm_terms=mobi_display_ads_experiment_v3.variant_1

[Blog] 04-03-2022

James Sedowski and Ryan Hall, 'Responses to Russia's Invasion of Ukraine Likely to Spur Retaliation'. Mandiant

<https://www.mandiant.com/resources/russia-invasion-ukraine-retaliation>

[Blog] 02-03-2022

Ciaran Martin, 'Cyber Realism in a Time of War', Lawfare.

<http://www.lawfareblog.com/cyber-realism-time-war>

[Social Media] 28-02-2022

Daniel Moore, 'Some thoughts on offensive cyber ops (OCOs) & influence campaigns in the context of Ukraine. Both potential and reality.

<https://threadreaderapp.com/thread/1498421362863624194.html>

[Blog] 25-02-2022

Lilly Pijnenburg Muller, 'What role are Cyber Operations Playing in this Conflict', King's College London.
<https://www.kcl.ac.uk/what-role-are-cyber-operations-playing-in-this-conflict>

[News article], 25-02-2022

Joe Devanny, 'Cyber attacks are part of the Russia-Ukraine conflict but the West can't rely on them to stop Putin.

<https://inews.co.uk/opinion/cyber-attacks-russia-ukraine-war-rest-cant-rely-stop-putin-1481763>

[Social media] 24-02-2022

Gordon Corera, <https://twitter.com/gordoncorera/status/1496805147271471117?s=21>

[Journal article], 28-01-2022

Dmitri Alperovitch, 'How Russia Has Turned Ukraine Into a Cyber-Battlefield'. Foreign Affairs.

<https://www.foreignaffairs.com/articles/russia-fsu/2022-01-28/how-russia-has-turned-ukraine-cyber-battlefield>

[Interview] 22-01-2022

The Record with Dmitri Alperovitch, 'Why this threat intelligence expert believes cyberattacks aren't Ukraine's biggest concern'.

<https://therecord.media/why-this-threat-intelligence-expert-believes-cyberattacks-arent-ukraines-biggest-concern/>

[Social Media] On the on-going debate amongst academics and others on why cyber ops have not figured more predominantly in Russia's war arsenal:

https://twitter.com/jason_healey/status/1499152291303239681?s=21

<https://twitter.com/drbrvaler/status/1498421218625601537?s=21>

Additional references of relevance

[Blog] 09-03-2022

Russel Buchan and Nicholas Tsagourias, 'Ukrainian 'IT Army': A Cyber Levée en Masse or Civilians Directly Participating in Hostilities?', EJIL:Talk

<https://www.ejiltalk.org/ukrainian-it-army-a-cyber-levee-en-masse-or-civilians-directly-participating-in-hostilities/>

[Journal article] 13-01-2022

Jonathan Horowitz, 'Private Companies in Cyber Operations During Armed Conflict', Lieber Institute, West Point.

<https://lieber.westpoint.edu/private-companies-cyber-operations-armed-conflict/>

[Journal Article]

Erica D. Lonergan & Shawn W. Lonergan (2022) Cyber Operations, Accommodative Signaling, and the De-Escalation of International Crises, Security Studies

<https://doi.org/10.1080/09636412.2022.2040584>

[Essay], 01-07-2021

Isabelle Peart, 'Digital safe havens: sheltering civilians from military cyber operations'. ICRC

<https://blogs.icrc.org/law-and-policy/2021/07/01/civilians-military-cyber-operations/>

[Journal article]

Lennart Maschmeyer; The Subversive Trilemma: Why Cyber Operations Fall Short of Expectations.

International Security 2021; 46 (2): 51–90. doi: https://doi.org/10.1162/isec_a_00418

[Journal article]

Kostyuk N, Zhukov YM. Invisible Digital Front: Can Cyber Attacks Shape Battlefield Events? Journal of Conflict Resolution. 2019;63(2):317-347. doi:10.1177/0022002717737138

[doi:10.1177/0022002717737138](https://doi.org/10.1177/0022002717737138)

COVERAGE OF ACTIVITY AFFECTING UKRAINE

[News article] 17-03-2022

Wired, 'A Zelensky Deepfake Was Quickly Defeated. The Next One Might Not Be'.
<https://www.wired.com/story/zelensky-deepfake-facebook-twitter-playbook/>

[Blog] 16-03-2022

Niels Nagelhus Schia, 'The Digital Battlefield', Prio.
<https://blogs.prio.org/2022/03/the-digital-battlefield/>

[Webpage] 15-03-2022

WeLiveSecurity, 'CaddyWiper: New wiper malware discovered in Ukraine'. ESET
<https://www.welivesecurity.com/2022/03/15/caddywiper-new-wiper-malware-discovered-ukraine/>

[Webinar] 14-03-2022

'Cyber in the Russia invasion', CSIS
<https://www.csis.org/events/cyber-ukraine-invasion-0>

[News article] 11-03-2022

AFP, 'Russian Cyber Restraint in Ukraine Puzzles Experts'.
<https://www.straitstimes.com/world/europe/russian-cyber-restraint-in-ukraine-puzzles-experts>

[News article] 09-03-2022

Reuters, 'Ukraine prepares potential move of sensitive data to another country'.
<https://blogs.icrc.org/law-and-policy/2021/07/01/civilians-military-cyber-operations/>

[Social media] 08-03-2022

Sean Lyngass, On cyber operations in Ukraine.
https://twitter.com/snlyngaas/status/1501254890047242251?s=20&t=LyL_A0k9ETILvyRpwdOCJA

[News article] 07-03-2022

Libération, 'Panne du réseau satellitaire Ka-Sat: sur la piste d'un sabotage lié à la guerre en Ukraine'.
https://www.liberation.fr/international/europe/panne-du-reseau-satellitaire-ka-sat-sur-la-piste-dun-sabotage-lie-a-la-guerre-en-ukraine-20220307_I6RWNYWVDNHDHGFPVQB2HZIVFM/

[Website] 07-03-2022

'SATCOM terminals under attack in Europe: A plausible analysis'. Reversemode
<https://www.reversemode.com/2022/03/satcom-terminals-under-attack-in-europe.html>

[Website] 04-03-2022

'Hawkeye 360 Signal Detection Reveals GPS Interference in Ukraine', He360
<https://www.he360.com/hawkeye-360-signal-detection-reveals-gps-interference-in-ukraine/>

[Blog] 01-03-2022

WeLiveSecurity, 'IsaacWiper and HermeticWizard: New wiper and worm targeting Ukraine. ESET
<https://www.welivesecurity.com/2022/03/01/isaacwiper-hermeticwizard-wiper-worm-targeting-ukraine/>

[News article] 28-02-2022

The Washington Post, 'The dire predictions about a Russian cyber onslaught haven't come true in Ukraine. At least not yet'.
<https://www.washingtonpost.com/technology/2022/02/28/internet-war-cyber-russia-ukraine/>

[Podcast] 28-02-2022

Cyberwire Daily, 'An Update on Russia's Hybrid War Against Ukraine/ Offensive Operations under Hactivist Guise/ Russian Privateers Return.
<https://podcasts.apple.com/us/podcast/an-update-on-russias-hybrid-war-against-ukraine/id1071831261?i=1000552506172>

[News article] 28-02-2022

***The Independent*, 'Anonymous news - live: Hacking attacks launched across Europe as internet activist group trolls Putin'.**

<https://www.independent.co.uk/tech/anonymous-russia-hackers-ukraine-message-b2024989.html>

[News article] 27-02-2022

Reuters, 'Ukraine launches 'IT Army', takes aim at Russian cyberspace'.

<https://www.reuters.com/world/europe/ukraine-launches-it-army-takes-aim-russian-cyberspace-2022-02-26/>

COVERAGE OF GOV. EFFORTS TO SUPPORT UKRAINE THROUGH CYBER MEANS

[Blog] 16-03-2022

Raquel Jorge, 'The need for a digital safe haven for Ukraine'. Real Instituto Elcano.

<https://www.realinstitutoelcano.org/en/commentaries/the-need-for-a-digital-safe-haven-for-ukraine/>

[News article] 04-03-2022

NBC News, 'Biden administration walks fine line on intelligence-sharing with Ukraine'.

<https://www.nbcnews.com/news/investigations/biden-administration-walks-fine-line-intelligence-sharing-ukraine-rcna18542>

[News article] 06-03-2022

The New York Times, 'Arming Ukraine: 17,000 Anti-Tank Weapons in 6 Days and a Clandestine Cybercorps'.

<https://www.nytimes.com/2022/03/06/us/politics/us-ukraine-weapons.html?>

[Website] 24-02-2022

'Activation of first capability developed under PESCO points to strength of cooperation in cyber defence'.

<https://eda.europa.eu/news-and-events/news/2022/02/24/-of-first-capability-developed-under-pesco-points-to-strength-of-cooperation-in-cyber-defence>

[News article] 21-02-2022

Político, 'EU to mobilize cyber team to help Ukraine fight Russian cyberattacks'

<https://www.politico.eu/article/ukraine-russia-eu-cyber-attack-security-help/>

[News article] 21-02-2022

Independent, 'Ukraine: UK ready to launch retaliatory cyber-attacks on Russia, defence secretary tells MPs'

<https://www.independent.co.uk/news/uk/politics/russia-ukraine-cyber-attack-ben-wallace-b2019836.html>

[News article] 21-12-2022

Business Standard, 'UK, UK send cyberwarfare teams to Ukraine amid concerns over Russia'.

https://www.business-standard.com/article/international/us-uk-send-cyberwarfare-teams-to-ukraine-amid-concerns-over-russia-121122100134_1.html

COVERAGE OF THIRD COUNTRY PREPAREDNESS IN THE EVENT OF ATTACKS

[News article] 08-03-2022

Reuters, 'EU countries call for cybersecurity emergency response fund.'

<https://www.reuters.com/world/europe/eu-countries-call-cybersecurity-emergency-response-fund-document-2022-03-08/>

[Press release] 07-03-2022

'Cloudflare, CrowdStrike, and Ping Identity Join Forces to Strengthen U.S. Cybersecurity in Light Of Increased Cyber Threats', CrowdStrike.

<https://www.crowdstrike.com/press-releases/cloudflare-crowdstrike-and-ping-identity-join-forces-to-provide-free-services-to-vulnerable-industries/>

[News article] 28-02-2022

Politico Weekly Cybersecurity, 'US cyber officials brace for attacks in wake of Ukraine invasion' (cyber attacks, ransomware, resilience, industry intel, vulnerabilities, cyber insurance).

<https://www.politico.com/newsletters/weekly-cybersecurity/2022/02/28/u-s-cyber-officials-brace-for-attacks-in-wake-of-ukraine-invasion-00012203>

[News article] 28-02-2022

The Washington Post, 'In the wake of the Ukraine invasion, Russia's cyberattacks could go global'.

<https://www.washingtonpost.com/technology/2022/02/24/russia-cyberattacks-global/>

[News article] 25-02-2022

CNET, 'Conti Ransomware Group Warns Retaliation if West Launches Cyberattack on Russia'.

<https://www.cnet.com/news/conti-ransomware-group-warns-retaliation-if-west-launches-cyberattack-on-russia/>

[Government website], CISA Shield's Up Campaign

<https://www.cisa.gov/shields-up>

[Government website], UK NCSC Advisory to organisations 'following Russia's attack on Ukraine'.

<https://www.ncsc.gov.uk/news/organisations-urged-to-bolster-defences>

COVERAGE OF PRIVATE COMPANIES (CYBER SECURITY, TECH, SOCIAL MEDIA, SATELLITE...) AND THE WAR

[Commentary] 14-03-2022

'Russia's false claims about biological weapons in Ukraine demonstrate the dangers of disinformation and how hard it is to counter – 4 essential reads', *The Conversation*.

<https://theconversation.com/russias-false-claims-about-biological-weapons-in-ukraine-demonstrate-the-dangers-of-disinformation-and-how-hard-it-is-to-counter-4-essential-reads-179159>

[News article] 11-03-2022

Reuters, 'Russia opens criminal investigation of Meta over death calls on Facebook.'

<https://www.reuters.com/world/kremlin-says-meta-would-have-cease-work-russia-if-reuters-report-is-true-2022-03-11/>

[News article] 11-03-2022

The Verge, 'Facebook allows posts with violent speech toward Russian soldiers in specific countries'.

<https://www.theverge.com/2022/3/10/22970705/russia-ukraine-moderation-facebook-instagram-hate-speech-violence-policy>

[Podcast] 10-03-2022

'How Tech Platforms are Navigating the War in Ukraine', *Lawfare*.

<https://podcasts.apple.com/us/podcast/the-lawfare-podcast/id498897343?i=1000553537913>

[News article] 10-02-2022

CNN Business, 'Russia says it could seize assets Western companies leave behind'.

<https://edition.cnn.com/2022/03/10/business/russia-nationalization-western-companies/index.html>

[Social Media] 10-02-2022

@C_C_Krebs', 'Not unexpected. Russian nationalization has to now be the operating assumption for any western company that exits Russia.'

https://twitter.com/C_C_Krebs/status/1501946709089284097?s=20&t=hi-aswyPcnmZ-aYPs9YsIA

[Company webpage] 09-03-2022

'How SpaceX got Starlink up and running in Ukraine', *Space*.

<https://www.space.com/how-spacex-got-starlink-running-ukraine>

[Company webpage] 04-03-2022

Alex Stamos and Chris Krebs, 'KSG recommendations for a Controlled Shutdown of Russian Operations'.
<https://intel.ks.group/p/controlled-shutdown?s=r>

[News article] 08-03-2022

SC Media, 'This isn't your war': As frustration breeds hacktivism for Ukraine, experts weigh sitting out'.
https://www.scmagazine.com/analysis/cyberespionage/this-isnt-your-war-as-frustration-breeds-hacktivism-for-ukraine-experts-weigh-sitting-out?mkt_tok=MTg4LVVOWi02NjAAAAGDDU_Pkq_zYdYRG5DQZGpUij0qcbfMbztviq35EXHISlr95KAR_vjwU7f100EjEnP6kUn9U247EC3WleR1xzZlgIp1kBPR6ia8AntEuQ

[Opinion Piece] 07-03-2022

The Guardian, 'How the tech community has rallied to Ukraine's cyber defense'.
<https://www.theguardian.com/commentisfree/2022/mar/07/tech-community-rallied-ukraine-cyber-defence-eu-nato>

[Think-Tank] As of 04-02-2022

Analysis: 'How Big Tech is Responding to Ukraine Invasion', Brookings Institution.
https://connect.brookings.edu/big-techs-response-to-ukraine?ecid=ACsprvt8ADvfXRG4RSek6jraQKH5KYS8xf2gtQpmc-D4Gj2IZ6cDDo89HrCpOWJRiWT_69eaAfCL&utm_campaign=TechStream&utm_source=hs_email&utm_medium=email

[News article] 02-03-2022

The Washington Post, 'The Ukraine Minister who is pushing Silicon Valley to stand up to Russia'.
<https://washingtonpost.com/technology/2022/03/02/mykhailo-fedorov-ukraine-tech/>

[News article] 01-03-2022

CNN Business, 'Apple suspends all product sales in Russia'.
<https://edition.cnn.com/2022/03/01/tech/apple-russia/index.html>

[News article] 28-02-2022

NBC News, 'Facebook, Twitter remove disinformation accounts targeting Ukraine'.
https://www.nbcnews.com/tech/internet/facebook-twitter-remove-disinformation-accounts-targeting-ukrainians-rcna17880?a&mc_cid=0019154127&mc_eid=46bccd44d7

[News article] 28-02-2022

NY Times, 'As Tanks Rolled Into Ukraine, So Did Malware. Then Microsoft Entered the War.'
<https://www.nytimes.com/2022/02/28/us/politics/ukraine-russia-microsoft.html?referringSource=articleShare>

[News article] 27-02-2022

CNN Business, 'SpaceX Starlink satellite internet service activated in Ukraine, says Elon Musk'.
<https://edition.cnn.com/2022/02/27/business/starlink-activated-ukraine/index.html>

COVERAGE OF ISSUES SPECIFIC TO THE TECHNICAL INFRASTRUCTURE ESSENTIAL TO THE GENERAL AVAILABILITY OR INTEGRITY OF THE INTERNET

[Blog] 17-03-2022

Tom Uren, 'Pulling Russia's plug a Gift to Putin', Srsly Risky Biz.
<https://srslyriskybiz.substack.com/p/srsly-risky-biz-thursday-march-17>

[News article] 10-03-2022

The Washington Post, Internet experts suggest ways to selectively block Russian military and propaganda sites'.

<https://www.washingtonpost.com/technology/2022/03/10/internet-russia-sanctions-proposal/>

[Website] 10-03-2022

'Civil society to U.S. government: Do not disrupt internet access in Russia or Belarus'. AccessNow.
<https://www.accessnow.org/us-government-internet-access-russia-ukraine-war-sanctions/>

[Blog] 10-03-2022

Rebecca MacKinnon, 'The Invasion of Ukraine is Horrific. Cutting the Russian People Off From the Internet Could Make It Worse'. Tech Policy Press.
<https://techpolicy.press/the-invasion-of-ukraine-is-horrific-cutting-the-russian-people-off-from-the-internet-could-make-it-worse/>

[Web page] 10-03-2022

'Multistakeholder Imposition of Internet Sanctions'. MS Internet governance community.
<https://www.pch.net/resources/Papers/Multistakeholder-Imposition-of-Internet-Sanctions.pdf>

[News article] 10-03-2022

The Register 'Ukraine invasion: We should consider internet sanctions, says ICANN ex-CEO'.
https://www.theregister.com/AMP/2022/03/10/internet_russia_sanctions/

[News article] 08-03-2022

'Russia's denying that it's about to cut itself off from the global internet, but it's acting a lot like it'.
<https://fortune.com/2022/03/07/russia-runet-disconnect-ukraine-dns-cherenko-letter/>

[News article] 08-03-2022

Vice News, 'Russia is preparing to Cut itself Off from the Global Internet'.
<https://www.vice.com/en/article/88gevb/russia-is-preparing-to-cut-itself-off-from-the-global-internet>

[Website] 08-03-2020

Brian Krebs, 'Internet Backbone Giant Lumen Shuns .RU', Krebs on Security.
<https://krebsonsecurity.com/2022/03/internet-backbone-giant-lumen-shuns-ru/>

[Online feed] 28-02-2022

'Request by the government of Ukraine to ICANN to remove the domains ".ru", ".рф" and ".su" from the root zone, making it difficult for people outside Russia to access Russian websites, email, etc. and to shut down DNS root servers within Russia'.
<https://pastebin.com/DLbmYahS>

02-03-2022

[Organisation] ICANN response
<https://www.icann.org/en/system/files/correspondence/marby-to-fedorov-02mar22-en.pdf>

[Magazine article] Coverage of Ukraine request:

Rolling Stone, 01-03-2022

'Ukraine Pushes to Unplug Russia from the Internet'.
<https://www.rollingstone.com/politics/politics-news/ukraine-icann-russia-internet-runet-disconnection-1314278/>

[Social media] See also some very useful Twitter commentary on pros and cons of the Ukrainian request to ICANN to remove the domains ".ru", ".рф" and ".su" from the root zone, making it difficult for people outside Russia to access Russian websites, email, etc. and to shut down DNS root servers within Russia:

<https://twitter.com/woodyatpch/status/1498472865301098500?s=21>

<https://twitter.com/kkomaitis/status/1498638533740871690?s=21>

<https://twitter.com/baheresmat/status/1499321010591608832?s=21>

ON (GOV) SANCTIONS (some broader than tech., but relevant)

[News magazine] 12-03-2022

[Analysis] 09-03-2022

Lawrence Freedman, 'Giving Peace a Chance: Can Putin and Zelensky Find a Way Out?', Comment is Freed.
https://samf.substack.com/p/giving-peace-a-chance?utm_source=twitter&s=r

[News article/Opinion] 08-03-2022

The Irish Times, 'West needs to think carefully about endgame in Ukraine'.

<https://www.irishtimes.com/opinion/fintan-o-toole-west-needs-to-think-carefully-about-endgame-in-ukraine-1.4820623?mode=sample&auth-failed=1&pw-origin=https%3A%2F%2Fwww.irishtimes.com%2Fopinion%2Ffintan-o-toole-west-needs-to-think-carefully-about-endgame-in-ukraine-1.4820623>

[Podcast] 20-02-2022

Galeotti, Mark, 'Imagining a Ukrainian Peacedeal', In Moscow's Shadows, Episode 59 (podcast)

<https://podcasts.apple.com/us/podcast/in-moscows-shadows/id1510124746?i=1000551660111>

[Article] 11-11-2021

Slate, 'The US and Russia might Finally be Making a Tiny Bit of Progress on Cybersecurity'

<https://slate.com/technology/2021/11/russia-us-cyber-norms-agreement-general-assembly.html>

[Research Centre] 2021

Govinda Clayton and Sean Kane, 'Cyber Ceasefires: Incorporating Restraints on Offensive Cyber Operations in Agreements to Stop Armed Conflict', CSS Mediation Resources, ETH Zurich.

[https://css.ethz.ch/en/publications/mediation-reports/mediation-resources/details.html?id=/c/y/b/e/cyber ceasefires incorporating restraint](https://css.ethz.ch/en/publications/mediation-reports/mediation-resources/details.html?id=/c/y/b/e/cyber%20ceasefires%20incorporating%20restraint)

[Think Tank] 11-2021

Camino Kavanagh, Madeline Carr and Nils Berglund, 'Quiet Conversations: Observations from a decade of practice in cyber-related track 1.5 and track 2 diplomacy'. EU Cyber Direct Digital Dialogue Series.

<https://eucyberdirect.eu/research/quiet-conversations-observations-from-a-decade-of-practice-in-cyber-related-track-1-5-and-track-2-diplomacy>

[Think Tank] 02-2021

Camino Kavanagh, 'Digital Technologies and Civil Conflicts: Insights for Peacemakers'. EUISS Conflict Series.

[https://www.iss.europa.eu/sites/default/files/EUISSFiles/Brief 4 2021 0.pdf](https://www.iss.europa.eu/sites/default/files/EUISSFiles/Brief%204%202021%200.pdf)

UNITED NATIONS-RELATED

10-03-2022

[Think Tank] Greg Austin, 'The UN's indictment of Russia and its long-term consequences'.

<https://www.iiss.org/blogs/analysis/2022/03/the-uns-indictment-of-russia-and-its-long-term-consequences>

02-03-2022

'General Assembly resolution demands end to Russian offensive in Ukraine', UN News

(Result of vote: 141 countries vote in favour of the resolution; 35 abstentions and 5 votes against)

<https://news.un.org/en/story/2022/03/1113152>

28-02-2022

Mark-Malloch-Brown, 'United Nations: The Last Thing Putin Wants', *PassBlue*

<https://twitter.com/richardgowan1/status/1498359435026219015?s=21>

26-02-2022

UN News, 'Russia blocks UNSC action on Ukraine'.

<https://news.un.org/en/story/2022/02/1112802>

Documents relevant to UN negotiating processes on ICTs in the context of international security¹

Developments in the field of information and telecommunications in the context of international security (A/C.1/76/L.13)

<https://documents-dds-ny.un.org/doc/UNDOC/LTD/N21/281/02/PDF/N2128102.pdf?OpenElement>

Report of the 2019-2021 Group of Governmental Experts (GGE) on Advancing Responsible State Behaviour in Cyberspace in the Context of International Security

https://unoda-web.s3.amazonaws.com/2021/08/A_76_135-2104030E-1.pdf

Official compendium of national views on how international law applies to the use of ICTs by States (accompanies the GGE report):

<https://unoda-web.s3.amazonaws.com/2021/08/A-76-136-EN.pdf>

Report of the 2019-2021 Open-Ended Working Group on Developments in the Field of ICTs in the Context of International Peace and Security

<https://front.un-arm.org/wp-content/uploads/2021/03/Final-report-A-AC.290-2021-CRP.2.pdf>

¹ For those unfamiliar with them, these reports and those that preceded them discuss existing and emerging threats and include a framework for responding to said threats anchored in existing international law, including international humanitarian and human rights law. They include a commitment by states to some 11 political non-binding peacetime norms for responsible state behaviour representing restraint measures and positive duties relevant to *inter alia* critical infrastructure protection and supply chain integrity; a plethora of confidence building measures, as well as a range of recommendations in the area of capacity building. Many of these proposals have been taken up at regional level, for instance within the OSCE, where a detailed set of ICT-related CBMs, including mechanisms for managing communications during crisis, has been adopted, as well as other organisations such as the ASEAN Regional Forum and the Organisation for American States.