



Digest is compiled by Alain Louchez,
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CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from
around the globe gathered by
CDAIT

(2250 entries since April 1, 2022)
GOVERNANCE &
THE INTERNET OF THINGS
https://cdait.gatech.edu/sites/default/files/2024-03/Digital_Transformation_Through_IoT_Technologies_March_15_2024_0.pdf

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Jim Love, "AI presents an 'extinction level threat' - US Gov't Report: Hashtag Trending for Tuesday, March 12, 2024," IT World Canada, March 12, 2024 <https://www.itworldcanada.com/article/ai-presents-an-extinction-level-threat-us-govt-report-hashtag-trending-for-tuesday-march-12-2024/560191>

Jacob Livesay, "NIST [National Institute of Standards and Technology] to release draft handbook on Internet of Things product development," Insider Cybersecurity, March 11, 2024 <https://insidcybersecurity.com/daily-news/nist-release-draft-handbook-internet-things-product-development-mid-march>

Manish Tewari, "AI, Blockchain & the IoT: the trifecta for smart cities," Realty Plus, [India] March 7, 2024 <https://rprealtyplus.com/interviews/a-i-blockchain-iot-the-trifecta-for-smart-cities-114298.html>

Alex Blair, "Will IoT in defence continue to grow amid cybersecurity concerns?" Army Technology, March 4, 2024 <https://www.army-technology.com/features/will-iot-in-defence-continue-to-grow-amid-cybersecurity-concerns/?cf-view>

Nathan Eddy, "IT Leaders Lack Confidence in IoT Security Plans," Security Boulevard, March 1, 2024 <https://securityboulevard.com/2024/03/it-leaders-lack-confidence-in-iot-security-plans/>

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Biweekly IoT News Digest (3/24 – 1)

Georgia Tech IoT-related Info/Research Noticed by CDAIT

IoT News and Market Reports

(First Half of March 2024)

- Selected IoT-related announcements and featured activities/topics gathered by CDAIT from governments; agencies; consortia; alliances; associations; standards, research and other similar groups around the world – 15 entries: https://cdait.gatech.edu/sites/default/files/2024-03/IoT_News_Filings_March_2024_First_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT – 65 entries: https://cdait.gatech.edu/sites/default/files/2024-03/IoT_Market_Reports_March_2024_First_Half.pdf

OF NOTE: Sara M. Baxenberg, Megan L. Brown, Kathleen E. Scott, and Joshua S. Turner, "FCC Continues Push to Establish IoT Cyber Trust Mark Program," Wiley Rein LLP, February 23, 2024 [https://www.wiley.law/alert-FCC-Continues-Push-to-Establish-IoT-Cyber-Trust-Mark-Program--Public-Draft-\(FCC-Fact-Sheet\)](https://www.wiley.law/alert-FCC-Continues-Push-to-Establish-IoT-Cyber-Trust-Mark-Program--Public-Draft-(FCC-Fact-Sheet)), "Cybersecurity Labeling for Internet of Things," Report and Order PS Docket No. 23-239 is here: <https://docs.fcc.gov/public/attachments/DOC-400674A1.pdf> -- Sarah Friedman, "FCC approves final order to establish Internet of Things cyber labeling program," Inside Cybersecurity, March 14, 2024 <https://insidcybersecurity.com/daily-news/fcc-approves-final-order-establish-internet-things-cyber-labeling-program> -- See **March 14, 2024 FCC announcement** here: <https://docs.fcc.gov/public/attachments/DOC-401201A1.pdf>

Special Reading Suggestions

- New Zealand Alliance posting, "IoT plays pivotal role in addressing climate adaptation | IoT News," New Zealand IoT Alliance, March 12, 2024 <https://iotalliance.org.nz/iot-plays-pivotal-role-in-addressing-climate-adaptation-iot-news/>
- Natalia Khan, Wei Deng Solvang, and Hao Yu, "IIoT and Other Industry 4.0 Technologies in O&G [Oil & Gas]," Scholarly Community Encyclopedia, updated March 11, 2024 <https://encyclopedia.pub/entry/55810>
- Richard Scarbrough, "The Aviation of Things," Flying, March 8, 2024 <https://www.flyingmag.com/the-aviation-of-things/>
- Donna Moore, "IWD 2024: How Industrial IoT Can Enable Industry 5.0," IT Brief [Australia], March 7, 2024 <https://itbrief.com.au/story/how-industrial-iot-can-enable-industry-5-0>
- Julia Seredovich, "How to monetize the IoT," Embedded, March 6, 2024 <https://www.embedded.com/how-to-monetize-the-iot/>
- Jay Palter, "Industrial Automation and IoT: What Are the Benefits?" Real Time Networks, March 4, 2024 <https://www.realtimenevents.com/blog/industrial-automation-and-iot-what-are-the-benefits>
- Asutosh Mohanty, "IoT Dynamics in 2024: A deep dive into connectivity, challenges, and innovations," Organiser [India], March 3, 2024 <https://organiser.org/2024/03/03/224747/sci-tech/iot-dynamics-in-2024-a-deep-dive-into-connectivity-challenges-and-innovations/>
- Essa Q. Shakra, Wenyan Wu, Shadi Basurra, and Adel Aneiba, "Edge Intelligent with Internet of Things," Scholarly Community Encyclopedia, February 29, 2024 <https://encyclopedia.pub/entry/55659>
- Bob Tapscott, "Trivergence: Accelerating Innovation with AI, Blockchain, and the Internet of Things," [Book, 256 pages], Wiley, ISBN: 9781394226610 published on February 28, 2024 <https://mitpressbookstore.mit.edu/book/9781394226610>

Selected IoT Perspectives

Internet of Things Roaming

"The Internet of Things (IoT) has revolutionized the way we interact with the world around us. From smart homes to industrial automation, IoT devices are playing a pivotal role in enhancing efficiency and convenience. However, the growing IoT ecosystem has brought forth its own set of challenges. One such challenge is permanent roaming, a phenomenon that has gained significance due to the global nature of IoT deployments." Mohit Agrawal,

"Navigating Permanent Roaming for IoT: Challenges and Solutions," Counterpoint, August 23, 2023 <https://www.counterpointresearch.com/insights/permanent-roaming-iot/>

- Joe O'Halloran, "5G, IoT roaming traffic soars in 2023," Computer Weekly, February 26, 2024 <https://www.computerweekly.com/news/366571312/5G-IOT-roaming-traffic-soars-in-2023>
- Report Prime press release, "IoT Roaming Market Size, Growth and Forecast from 2024 – 2031," LinedIn, February 23, 2024 https://www.linkedin.com/pulse/iot-roaming-market-size-growth-forecast-from-2024-2031-gj5se?trk=article-ssr-frontend-pulse_more-articles_related-content-card
- Zita Goldman, "The final stepping stones towards global IoT connectivity - How a new standard is set to remove the barriers from roaming in IoT devices," Business Reporter, February 13, 2024 <https://www.business-reporter.co.uk/industrial-innovations/the-final-stepping-stones-towards-global-iot-connectivity>
- John Boitnott, "5G IoT Roaming Connections Are About to Explode," ReadWrite, July 12, 2023 <https://readwrite.com/5g-iot-roaming-connections-are-about-to-explode/>

Research background info (sample): Sadhukhan, Dipanwita, Sangram Ray, Mou Dasgupta, and Muhammad Khurram Khan, "Development of a provably secure and privacy-preserving lightweight authentication scheme for roaming services in global mobility network," Journal of Network and Computer Applications 224 (April 2024): 103831 <https://www.sciencedirect.com/science/article/abs/pii/S1084804524000080>; Vahdat-Nejad, Hamed, "CAMID: architectural support of middleware for multiple-domain ubiquitous computing and IoT," The Journal of Supercomputing 79, no. 1 (2023): 573-590 <https://link.springer.com/article/10.1007/s11227-022-04696-w>; Hammache, Mohamed, Rahim Kacimi, and André-Luc Beylot, "Enabling an inter-operator roaming capability in LoRaWAN networks," Ad Hoc Networks 139 (2023): 103025 <https://www.sciencedirect.com/science/article/abs/pii/S1570870522001974> -- See GSMA website, "Mobile IoT (LPWA) Roaming," <https://www.gsma.com/iot/mobile-iot/roaming/>

<https://cdait.gatech.edu>



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March 15, 2024