

International Cybersecurity Norms

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Escalating cyber risks



Governments' roles in cyberspace



Relevance to the private sector



Evaluating behavior in cyberspace

	Actors	Objectives	Actions	Impacts
Offensive Norms	Nation-states, primarily militaries and intelligence agencies	Reduce conflict between states, lower risk of escalation from offensive operations, and prevent unacceptable consequences	Exercise self-restraint in the conduct of offensive operations.	Mitigate unacceptable impacts of ICT use by governments
Defensive Norms	Public and private sector cyber-defense teams	Manage cybersecurity risk through enhanced defense and incident response	Collaboration among defenders (e.g., sharing information, best practices exchange, and response coordination)	Protect government, enterprise, and consumer users of ICT
ndustry Iorms	Global ICT companies	Deliver secure products and services	Support defense and refrain from offense	Protect ICT users and enhance trust in technology

Microsoft's norms proposals

	Nation-states	Global ICT industry
Maintain trust	States should not target ICT companies to insert vulnerabilities (i.e., backdoors) or take actions that would otherwise undermine public trust in products and services.	Global ICT companies should not permit or enable nation-states to adversely impact the security of commercial, mass-market ICT products and services (e.g. though backdoors).
Coordinated approach to vulnerability handling	States should have a clear principle-based policy for handling product and service vulnerabilities that reflects a strong mandate to report them to vendors rather than to stockpile, buy, sell, or exploit them.	Global ICT companies should adhere to coordinated disclosure practices for handling of ICT product and service vulnerabilities.
Stop proliferation of vulnerabilities	States should commit to nonproliferation activities related to cyber weapons.	Global ICT companies should not traffic in cyber vulnerabilities for offensive purposes, nor should ICT companies embrace business models that involve proliferation of cyber vulnerabilities for offensive purposes.
Mitigate the impact of nation-state attacks	States should exercise restraint in developing cyber weapons and should ensure that any which are developed are limited, precise, and not reusable.	Global ICT companies should collaborate to proactively defend against nation-state attacks and remediate the impact of such attacks
Prevent mass events	States should limit their engagement in cyber offensive operations to avoid creating a mass event	No corresponding norm for the global ICT industry.
Support response efforts	States should assist private sector efforts to detect, contain, respond to, and recover from events in cyberspace.	Global ICT companies should assist public sector efforts to identify, prevent, detect, respond to, and recover from events in cyberspace.
Patch customers globally	No corresponding norm for nation-states.	Global ICT companies should issue patches to protect ICT users, regardless of the attacker and their motives.

Areas of convergence in proposed norms



Constituents for industry norms



Challenge: verification of compliance

Technical attribution

- Trade craft
- Artifacts
- Target selection
- Specialized knowledge



Policy options

- Say nothing
- Make a private accusation
- Make a public accusation

Public-private forum for attribution



Forums and processes



Resources

Prior white papers available

- From Articulation to Implementation: Enabling Progress on Cybersecurity Norms (2016) (<u>link</u>)
- Five Principles for Shaping Cybersecurity Norms (2013) (<u>link</u>)
- International Cybersecurity Norms (2014) (<u>link</u>)
- Governments and APTs: The Need for Norms (2015) (<u>link</u>)

Additional resources

- Cyber Insecurity: Competition, Conflict, and Innovation Demand Effective Cybersecurity Norms (2014) (<u>link</u>)
- Securing Cyberspace through International Cybersecurity Norms (<u>link</u>)

Questions