

DISAGGREGATED INTERNET GOVERNANCE TAXONOMY

<i>Functional Area</i>	<i>Tasks</i>	<i>Primary Institutional Actor</i>
I. Control of "Critical Internet Resources"	Central Oversight of Names and Numbers	ICANN, IANA, US Department of Commerce
	Technical Design of IP Addresses	IETF
	New Top-Level Domain Approval	ICANN
	Domain Name Assignment	Internet Registrars
	Oversight of Root Zone File	US Department of Commerce/NTIA
	IP Address Distribution (allocation/assignment)	IANA, RIRs, LIRs, NIRs, ISPs
	Management of Root Zone File	IANA
	Autonomous System Number Distribution	IANA, Regional Internet Registries
	Operating Internet Root Servers	VeriSign, Cogent, others
	Resolving DNS Queries (Billions per Day)	Registry Operators (VeriSign, others)
II. Setting Internet Standards	Protocol Number Assignment	IANA
	Designing Core Internet Standards	IETF
	Designing Core Web Standards	W3C
	Establishing Other Communication Standards	ITU, IEEE, MPEG, JPEG, ISO, others
III. Access and Interconnection Coordination	Facilitating Multilateral Network Interconnection	Internet Exchange Point Operators
	Peering and Transit Agreements to Interconnect	Private Network Operators, Content Networks, CDNs
	Setting Standards for Interconnection (e.g. BGP)	IETF
	Network Management (Quality of Service)	Private Network Operators
	Setting End User Access and Usage Policies	Private Network Operators
	Regulating Access (e.g. Net Neutrality)	National Governments/Agencies
IV. Cybersecurity Governance	Securing Network Infrastructure	ISPs, Network Operators, Private End User Networks
	Designing Encryption Standards	Standards-Setting Organizations
	Cybersecurity Regulation/Enforcement	National Statutes/Multilateral Agreements
	Correcting Software Security Vulnerabilities	Software Companies
	Software Patch Management	Private End Users
	Securing Routing, Addressing, DNS	Network Operators, IETF, Registries
	Responding to Security Problems	CERTs/CSIRTs
Trust Intermediaries Authenticating Web Sites	Certificate Authorities (CAs)	
V. Information Intermediation	Commercial Transaction Facilitation	E-Commerce Sites, Financial Intermediaries
	Mediating Government Content Removal Requests (Discretionary Censorship)	Search Engines, Social Media Companies, Content Aggregation Sites
	App Mediation (Guidelines, Enforcement)	Smartphone Providers (e.g. Apple)
	Establishing Privacy Policies (via End User Agreements and Contracts)	Social Media, Advertising Intermediaries, Email Providers, Network Operators
	Responding to Cyberbullying and Defamation	Content Intermediaries
	Regulating Privacy, Reputation, Speech	Statutory and Constitutional Law
	Mediating Govt. Requests for Personal Data	Content Intermediaries, Network Operators
VI. Architecture-Based Intellectual Property Rights Enforcement	Domain Name Trademark Dispute Resolution	ICANN UDRP, Registrars, Accredited Dispute Resolution Providers
	Removal of Copyright Infringing Content	Content Intermediaries
	Algorithmic Enforcement (e.g. Search Rankings)	Search Engine Companies
	Blocking Access to Infringing Users	Network Operators/ISPs
	Domain Name System IPR Enforcement	Registries/Registrars
	Regulating Online IPR Enforcement	National Statutes, International Treaties
	Standards-Based Patent Policies	Standards-Setting Organizations
Enacting Trade Secrecy in Content Intermediation	Search Engines, Reputation Engines	