

DNS Abuse Mitigation

Presentation to the At-Large CPWG

- **At-Large DNS Abuse High-Level Strategy Development**
- **GNSO Council DNS Abuse Small Team Input Sought**

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Agenda

1. At-Large DNS Abuse High-Level Strategy Development
2. Input for GNSO Council DNS Abuse Small Team

Per [GNSO Council DNS Abuse Small Team Assignment Form](#), small team is tasked to:

- Evaluate broader DNS Abuse mitigation efforts across ICANN
- Assess the impact of the Contract amendments on DNS abuse mitigation efforts
- Discuss and provide a summary on the insights from the INFERMAL study and how these insights can help inform next steps on DNS abuse

Expected Outcome – Report to GNSO Council, including:

- Findings from review of available data sources;
- List of gaps the Small Team may have identified;
- Recommendations on next steps on what other work (policy, further research, etc.) might be needed to address DNS abuse.

At-Large DNS Abuse High-Level Strategy Development



At-Large DNS Abuse High-Level Strategy Development

⦿ ICANN83 Policy Forum

- **At-Large Policy Session with OCTO** [Capacity Building]
 - Work, tool to support DNS Abuse Mitigation
 - Domain Metrics
 - Other Research – Batch Registrations, Abuse uptime, Parked domains
 - INFERMAL Report
- **At-Large Plenary 2: Progressing DNS Abuse Mitigation Efforts Within ICANN**
[Engaging community towards Policy Development]
 - At-Large Community
 - Commercial Stakeholder Group (CSG)
 - GAC Public Safety WG (PSWG)
 - Registry Stakeholder Group (RySG)
 - Registrar Stakeholder Group (RrSG)
 - NetBeacon Institute
 - Non-Commercial Stakeholder Group (NCSG)

⦿ What's Next?

- **GNSO Council DNS Abuse Small Team Work**
[Path towards possible Policy Development or further contract amendments]
- Intersessional work with partners
- At-Large Policy Session with OCTO – follow up?
- ICANN84 At-Large Plenary on DNS Abuse Mitigation

GNSO Council DNS Abuse Small Team Work

- ⦿ **Preliminary Input** sought on:
 - **29 gaps** identified so far, clustered into **12 themes**, out of:
 1. [GNSO Council DNS Abuse Small Team Report \(Oct 2022\)](#)
 2. [INFERMAL Report – Inferential analysis of maliciously registered domains \(Nov 2024\)](#)
 3. [ICANN Org Report on DNS Abuse mitigation requirements \(Nov 2024\)](#)
 4. [NetBeacon Blog – Analysis of Impact of ICANN Contract Amendments \(Dec 2024\)](#)
 5. [NetBeacon PDP Whitepaper \(May 2025\)](#)
 - Any other (feasible) gaps?
 - What gaps to address as a priority?
 - *Note: Solutions are for later*

GNSO Council DNS Abuse Small Team Work (1st Look)

High Priority

6. Introduce friction in access to “bulk/batch” registrations	G2 Withhold unrestricted API access for new customers ^[5]
	G9 Lack of syntactic & operational registrant data validation ^[2]
	G12 Lack of proactive/timely verification at registration ^[2]
	G25 <i>Lack of data on bulk registration abuse</i> ^[1]

1. Associated domain check	G1 Investigate associated domains ^[4]
	G10 Broaden use of abuse data for preventive action ^[2]

12. Proactive vs reactive	G11 Minimal deterrent effect of reactive measures ^[2]
	G23 Challenges in real-time detection of short-lived abuse ^[4]
	G26 Underuse of predictive algorithms for early detection ^[1]

2. Complainant reports	G17 25% unactionable complaints ^[3]
	G27 Awareness on reporting abuse ^[1]

5. Enforcement challenges	G13 Disparate registrar abuse mitigation responses ^[3]
	G15 No sanctions/deterrents for recurring non-compliance by CPs ^[3]
	G20 Delayed ICANN enforcement actions ^[4]
	G29 <i>Ambiguity in RAA, RA language</i> ('reasonable', 'prompt') ^[3]

10. Mitigation info from CPs	G18 Measurement challenges due to 'uncharacterized' domains ^[4]
	G22 Limited transparency in mitigation actions taken reducing accountability & oversight ^[4]

← Preventive

Curative →

7. Forbid incentives promoting abuse	G21 Inconsistent registrar credential performance ^[4]
	G6 'Discounts' more prone to DNS abuse ^[2]
	G7 Free services more likely to be abused by threat actors ^[2]

11. Subdomains	G3 Unregulated subdomain abuse ^[5]
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3. Compromised vs Malicious	G19 Attention to hijack legitimate domains ^[4]
	G24 Lack of definition ^[1]

4. Dispute Resolution	G4 Recourse mechanism for legitimately aggrieved registrants ^[5]
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8. Industry coordination	G5 Inefficient coordination on DGA-based abuse to support LEA ^[5]
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9. Lack of research/data	G8 Lack of empirical research on abuse factors ^[2]
	G14 No ICANN overview of mitigation actions outside of contract enforcement ^[3]

Low Priority

Source:

- [1] GNSO Council DNS Abuse Small Team Report (Oct 2022)
- [2] INFERMAL Report – Inferential analysis of maliciously registered domains (Nov 2024)
- [3] ICANN Org Report on DNS Abuse mitigation requirements (Nov 2024)
- [4] NetBeacon Blog – Analysis of Impact of ICANN Contract Amendments (Dec 2024)
- [5] NetBeacon PDP Whitepaper (May 2025)

Input to GNSO Council DNS Abuse Small Team Work

- ⦿ Next steps (subject to discussion herein)

Who	What	When
JC / Staff	Issue Survey through CPWG to gather feedback on gaps & priorities	Post CPWG Call on 25 June 2025
CPWG Members	Provide feedback via Survey	By 30 June 2025 at 23:59 UTC
JC	Tabulate & analyze Survey data	1-2 July 2025
CPWG Members	Confirm position based on Survey data as preliminary input	CPWG Call on 2 July 2025 at 14:00 UTC
JC	Relay preliminary input to GNSO Council DNS Abuse Small Team	3 July 2025