

# Coordinated Vulnerability Disclosure Reporting at ICANN

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This document describes the basic principles of Coordinated Vulnerability Disclosure Reporting as practiced by the Internet Corporation for Assigned Names and Numbers (ICANN).

*Coordinated Vulnerability Disclosure* refers to a reporting methodology where a party (“reporter”) privately discloses information relating to a discovered vulnerability to a product vendor or service provider (“affected party”) and allows the affected party time to investigate the claim, and identify and test a remedy or recourse before coordinating the release of a public disclosure of the vulnerability with the reporter.

Coordinated disclosures rely on private communications between reporter and affected parties during vulnerability investigations to limit risk to or prevent harm to third parties should the vulnerability be made public before remedies can be identified. Reporters agree to terms of Coordinated Vulnerability Disclosures with the expectation that the affected parties will seek a remedy when notified. All parties to the disclosure generally agree to refrain from disclosing the vulnerability to the public until a remedy is identified and tested or until the threat is considered contained. It should be noted that while reporters and affected parties typically in

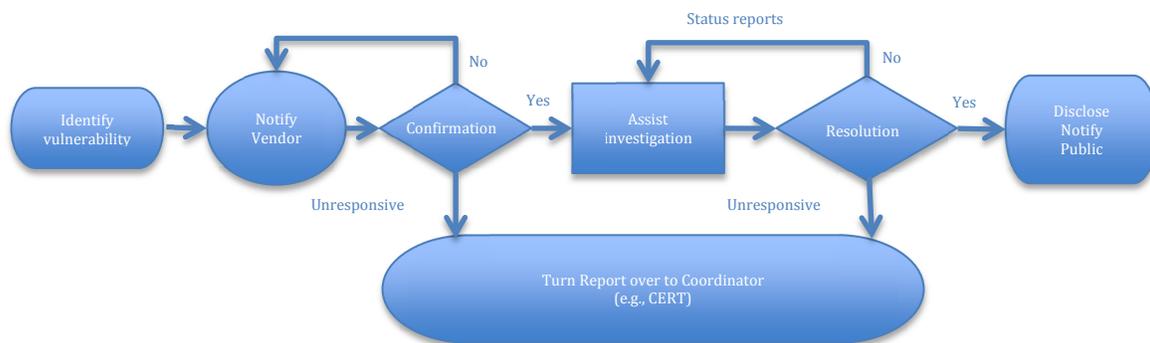
good faith, a reporter may choose to disclose a vulnerability when reasonable attempts to coordinate disclosure with an affected party are exhausted and the reporter is under no (legal) obligation not to disclose.

The methodology ICANN describes here for vulnerability reporting also applies to reporting threats to the security, stability, or resiliency of Internet identifier systems.

Under this methodology, a reporter may also give notice of a vulnerability or threat through a *coordinator* who is trusted by all parties to report directly and exclusively to the product vendor or services provider, such as a national computer emergency response team (CERT). ICANN explains how it acts as reporter, affected party, or coordinator.

### Illustration of a Typical Coordinated Disclosure Process

Figure 1 illustrates the roles and relationships of parties typically involved in a coordinated disclosure.



### Commitment

ICANN is publishing this reporting process within ICANN’s role and remit to facilitate the security, stability, and resiliency of the Internet’s unique identifier systems through coordination and collaboration. Visitors and users of ICANN websites, systems and services, rely on ICANN to protect the data and services within the systems used by the community and organization. The security of the identifier systems, data and services is a responsibility ICANN takes seriously.

ICANN is committed to protect these from security threats and welcomes responsible and timely reports of any vulnerabilities discovered on ICANN websites, platforms, or processes. ICANN welcomes responsibly coordinated reports of vulnerabilities, and ICANN will collaborate with reporting parties to fix vulnerabilities or mitigate threats. Please note however that this document does not give permission to anyone to break any law or to access any non-public data or

systems maintained by ICANN. We expect reporters to abide by the following terms, which we believe are consistent with Coordinated Disclosure Reporting:

- Reporters will refrain from performing testing against ICANN's website, platforms, or services that would result in a disruption or denial of service.
- Reporters agree to privately share details of suspected vulnerabilities to our website or platforms, or threats to Internet identifier systems.

We intend to abide by these same terms when circumstances call for ICANN to serve as a coordinator or reporter.

## Reporting Process: ICANN as Affected Party

### Notification and Report Submission

Reports of vulnerabilities found in ICANN's websites, platforms, or services, or threats against identifier systems should be submitted by electronic mail to <disclosure@icann.org>. For private, secure reporting we recommend that reporters use PGP or S/MIME. For the latest keys and fingerprints please visit <https://www.icann.org/security/>

Reporters should include as much of the following documentation as possible in a vulnerability or threat report:

- A summary of the vulnerability or threat,
- Technical details,
- Where applicable, a description of how to reproduce the vulnerability,
- The reporter's analysis and perceived severity of the vulnerability or threat, and
- Any additional information that may assist ICANN in investigating the matter.

ICANN will accept reports if cryptographically protected electronic mail is not available to the reporter; in such circumstances, however, the reporter should refrain from submitting vulnerability or threat documentation and instead only submit an email notification to ICANN to determine whether it is necessary to employ an alternative means to securely transmit technical details or other sensitive information.

If you are unable to contact ICANN using electronic mail, please contact us by telephone at +1 310 301 5800. Indicate that you are calling in regard to an Internet security matter or imminent threats and ask to be connected to ICANN's incident response officer.

## Confirmation and tracking

ICANN will, within one business day, confirm receipt of the notification by email and assign a tracking identifier. Future correspondence between the reporter and ICANN, including status reports from ICANN, should reference this identifier. ICANN is a non-profit public benefit organization and is not in a position to offer cash awards to reporters, but ICANN would ordinarily be willing to publicly recognize and thank any responsible reporters of vulnerabilities or threats.

## Validation and Status Reporting

ICANN will investigate the reported vulnerability or threat and provide the reporter with an initial assessment or estimated time for resolution within two weeks. ICANN will issue subsequent status reports as it continues to investigate progresses to inform the reporter of changes to the estimated time for resolution, i.e., when it expects to conclude the investigation, remedy the vulnerability, or report that the threat is considered contained. ICANN asks that reporters allow for sufficient time to fully investigate and resolve, especially in circumstances where ICANN has a coordinator role. Vulnerability reporters should refrain from publicly disclosing the vulnerability, threat or methods to reproduce (such as exploit code) while ICANN investigates the claim.

## Resolution and Release

ICANN will notify the reporter when it has remedied the vulnerability or when it determines that the threat is contained. ICANN will have prepared a public release describing the issue and its resolution. We will share this with the reporter so that the parties can coordinate the disclosure of the vulnerability, its remedy, or the containment of the threat to the public.

## Reporting Process: ICANN as Reporter

### Notification and Report Submission

ICANN's preferred method of reporting vulnerabilities is cryptographically protected email to a designated vulnerability contact published by the affected. In a secure vulnerability notification, ICANN will attempt to provide:

- A summary of the vulnerability or threat,
- Technical details,
- Where applicable, a description of how to reproduce the vulnerability,
- ICANN's analysis and perceived severity of the vulnerability or threat, and
- Any additional information that may assist the affected vendor in investigating the matter.

Where secure email to a designated contact cannot be identified, ICANN will make reasonable efforts to obtain email or other contact information through other public resources, such as the administrative contact of the affected party's domain name registration record, social media contacts, alternate channels, or a coordinator such as a national CERT. In these cases, ICANN will notify the affected party but will wait for (secure) handling instructions from the affected party before submitting a detailed vulnerability report.

### Confirmation and tracking

Depending on our assessment of the severity of the vulnerability or threat, ICANN will wait for one to ten days for confirmation of the affected party's receipt of its vulnerability notification. Upon confirmation, ICANN will provide documentation (if not submitted through a secure notification email), and will refrain from publicly disclosing the vulnerability, threat or methods to reproduce (such as exploit code) while the affected party investigates the claim.

Where the affected party fails to respond after reasonable efforts to contact have been exhausted, ICANN will attempt to contact the affected party through other channels or coordinators. If all reasonable attempts to contact the affected party fail, or if the vulnerability ICANN has attempted to report becomes publicly known, ICANN will consult with trusted parties such as a national CERT to determine an appropriate and responsible disclosure.

### Validation and Status Reporting

ICANN will assist an affected party during its investigation of a reported vulnerability. We ask that affected parties provide an estimated time for resolution as well as progress or status reports during the investigation. ICANN will make

reasonable efforts to assist affected parties with testing to verify a remediation the vendor proposes to release.

### **Resolution and Release**

Affected parties notified by ICANN of a vulnerability should inform ICANN when the vulnerability is remedied or when it is determined that the threat identified is contained. Affected parties should try and coordinate any public release describing the issue and its resolution. Where appropriate, ICANN will make a public disclosure through its own communications channels.

## ICANN as a Vulnerability Coordinator

Under certain circumstances – particularly where a threat to the security, stability, or resiliency of Internet number systems or global DNS operations is identified – ICANN may be contacted to assist in a vulnerability investigation or threat response. In such circumstances, ICANN will confirm that all parties trust ICANN to act as coordinator. During this confirmation period, ICANN will (i) facilitate communications (i.e., introduce parties, provide vulnerability, abuse, or threat response point of contact information) and (ii) privately disclose only such information relating to the threat as is necessary for affected parties to assess whether they wish to have ICANN coordinate the investigation or response, or whether the parties will proceed with the investigation or response directly (without ICANN participation).

If ICANN is asked to coordinate, we will ask reporters to follow the guidelines described under Reporting Process: ICANN as Accepting Party. We will assist reporters in determining how to share information and if appropriate, assist in identifying affected parties (for example, there may be circumstances where ICANN may be able to identify other parties affected by the vulnerability or threat than those identified by the reporter). ICANN will follow the guidelines described under Reporting Process: ICANN as Reporting Party, privately share information with affected parties, and continue to coordinate and support investigation or response activities through to and including public release.

## Reference: Other Coordinated Vulnerability Disclosure Policies

Below is a list of disclosure policies ICANN consulted in composing our Coordinated Vulnerability Disclosure Guidelines:

CERT/CC Vulnerability Disclosure,

[http://www.cert.org/kb/vul\\_disclosure.html](http://www.cert.org/kb/vul_disclosure.html)

EngineYard Responsible Disclosure Policy,

<https://www.engineyard.com/legal/responsible-disclosure-policy>

Google: Rebooting Responsible Disclosure,

<http://googleonlinesecurity.blogspot.com/2010/07/rebooting-responsible-disclosure-focus.html>

Microsoft Security Response Center: Coordinated Vulnerability Disclosure,

<http://www.microsoft.com/security/msrc/report/disclosure.aspx>

Secunia Vulnerability Disclosure,

<http://secunia.com/community/research/policy/>

SoundCloud Responsible Disclosure,

<http://help.soundcloud.com/customer/portal/articles/439715-responsible-disclosure>