

Responsible Disclosure Policy

Accuvant LABS

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This document describes the Responsible Disclosure process employed by Accuvant LABS. Accuvant may change this Responsible Disclosure Policy at any time.

Introduction

Responsible Disclosure often has different meanings for each of the parties involved in the disclosure process. The goal of this document is to resolve these differences and to offer transparency into Accuvant's process by providing a clear set of expectations.

Accuvant LABS is the security assessment and research division of Accuvant, the only research-driven security partner delivering alignment, clarity and confidence to enterprise clients. This team, which is comprised of the industry's top vulnerability researchers and security assessors, is responsible for the discovery and remediation of Internet- and application-based threats, vulnerabilities and exploits.

A “vulnerability” can be categorized as a hole, bug, default, defect, programming error or other weaknesses within software, an application or hardware component that, if discovered, can be or used to modify the software or gain unwanted access to data, hence, “exploit”. According to the ISO 7498-2 standard, a “threat” can be categorized as a “potential violation of security”. A threat-based attack on an organization or environment occurs when a vulnerability is exploited and can result in damage to an asset or undesirable operation within the application.

To protect organizations and environments from vulnerabilities, exploits and threats, the Accuvant LABS team researches hardware and software products, develops assessment methodologies to discover these types of issues, and educates the public about its findings through a variety of forums. As part of this, Accuvant LABS may assist manufacturing companies with the development of patches, fixes and updates of known vulnerabilities.

The following Accuvant LABS Responsible Disclosure Policy communicates the team's policies and procedures concerning the disclosure of vulnerability information.

Statement of Intent

Accuvant's Responsible Disclosure Policy is designed to offer software and hardware manufacturers education, assistance and coordination regarding identified security issues, as well as provide end users with a timely and desirable resolution. This policy sets forth Accuvant LABS' intentions and guidelines for communication between Accuvant LABS and manufacturers so that we can better work together.

Scope

This policy covers all vulnerabilities that Accuvant LABS discovers and intends to disclose publicly.

Audience

This policy is intended for vendors of affected software and hardware and clients of Accuvant. To ensure transparency, this document is available to the public and is accessible from Accuvant's website at the following location:

<http://www.accuvant.com/Solutions/AccuvantLABS/Research>

Summary

If a vulnerability is discovered and verified internally, Accuvant LABS will notify the product vendor. The notification will contain details of the issue as well as next steps for resolution and coordinated public disclosure. Any next steps will specify timing that is assumed to be agreed upon in the absence of acknowledgement by the vendor within a reasonable timeframe, as further defined in the process details section of this policy.

Disclaimer

This policy is made available solely for informational purposes and in accordance with Accuvant LABS' understanding of information currently available to Accuvant. Legal and business developments are prone to change, and may not be entirely reflected herein. Accuvant LABS does not represent, warrant or guarantee that this policy is complete, accurate or up-to-date, nor does Accuvant LABS offer any certification or guarantee with respect to this disclosure policy. The information provided is AS IS, and Accuvant LABS assumes no responsibility for errors, omissions or damages resulting from the use of or reliance on the information herein or disclosed by Accuvant LABS. Prior to acting pursuant to this policy or relying on any information herein, readers should obtain professional advice and seek to understand all facts and circumstances related thereto.

DISCLOSURE PROCESS DETAILS

Accuvant LABS' Responsible Disclosure process consists of the following three phases.

1. Vendor Notification
2. Vendor Coordination
3. Public Disclosure

The Vendor Notification phase includes Accuvant LABS' initial communications with the product vendor. During the Vendor Coordination phase, Accuvant LABS and the vendor coordinate timelines and details of issues that arise in the planning and development of the solution. Finally, during the Public Disclosure phase, details of the issue and related solution are published.

Vendor Notification

Accuvant LABS will verify and document each vulnerability prior to Vendor Notification.

Vendor Notification is the first phase of the public disclosure process, where Accuvant LABS' goal is to provide vulnerability details necessary for the vendor to begin its internal resolution process.

Appendix A contains a template used in crafting the Vendor Notification. *Appendix B* includes a template used in the initial draft of the Public Disclosure and is intended to be included in the Vendor Notification.

If the vendor has not acknowledged receipt within 30 business days of the original notification, Accuvant LABS will retransmit the vulnerability details to the original contact and at least one secondary contact, if a secondary contact is publicly available. If the vendor allows an additional ten business days to elapse following the second notification (40 business days since original notification) without acknowledging the information, vulnerability details will be re-sent not only to the previous two contacts, but also to Accuvant's customers or other stakeholders at Accuvant LABS' discretion.

If the product vendor does not respond to any of the three notification attempts within an additional ten days following the third notification (50 business days since original notification), or if the vendor indicates that it does not wish to coordinate disclosure, Accuvant may elect to issue a public advisory (see Public Disclosure).

Acknowledgement of the notification by the vendor should include all of the following items:

- Vendor confirms the vulnerability information is received and the schedule for investigation.
- Vendor provides a point of contact responsible for coordinating and tracking information on the issue from within its organization.

- Vendor provides an estimate as to when it expects to complete its initial investigation of the security issue provided in the notification.

Once the vendor has successfully acknowledged the notification and responds accordingly, the disclosure process continues to the Vendor Coordination phase.

Vendor Coordination

Upon successful acknowledgement of the notification, Accuvant LABS will work with the vendor to determine how the security issue will be addressed. The following tasks are included within this phase:

- At the vendor's request, Accuvant LABS will provide additional information to assist in the development of a solution.
- At the vendor's request, Accuvant LABS will review proposed solutions for effectiveness in at least one version of the product.
- The vendor and Accuvant LABS will exchange public disclosure drafts for mutual approval of content.
- The vendor and Accuvant LABS will exchange proposed timing for public disclosure of the issue and related solution for mutual approval.

If vendor responses to all communications in this phase are not received within five business days, Accuvant LABS may move directly to the Public Disclosure phase.

Furthermore, during the Vendor Coordination phase it is common for vendors to request a proof-of-concept (PoC) to trigger the vulnerable code. Accuvant LABS believes PoCs are useful tools in a vendor's remediation efforts, especially when developers of the affected code are no longer available. Accuvant LABS may, at its discretion, satisfy vendor requests for PoCs. Additionally, Accuvant LABS may release the PoCs to the public after the Public Disclosure phase completes and a solution has been made available.

Requests by vendors for production grade exploits are sometimes made when the vulnerability's proposed criticality is doubted. Given that this type of request implies that the organization that authored the software is uncertain of the vulnerability's criticality, it follows that users and administrators who have less working knowledge of the product have an even higher level of uncertainty. Therefore, Accuvant LABS may, at its discretion, deliver the exploit to the vendor upon request; however, exploits of a similar quality may also be furnished to the public in an effort to supply end users with the information necessary to make an informed decision regarding their security posture.

Public Disclosure

Public Disclosure is the final phase of the disclosure process. During this phase, Accuvant LABS' intent is to provide information on the vulnerability and related solutions. Public Disclosure

may be initiated either by completing the Vendor Coordination phase or through a process failure in prior phases.

During the Public Disclosure phase Accuvant LABS, and optimally the vendor, will disseminate information on the vulnerability and related solution to the public. Accuvant may disseminate information through public e-mail lists, web pages or any other medium it deems appropriate to reach the intended audiences.

Public Disclosure information is intended to be used by the following groups:

- Protectors, which include security vendors and administrators, may use the information to develop technologies or solutions to assist in defending or alerting the public on attacks exploiting the related vulnerability.
- Product users and owners may use the information to prioritize remediation resources.
- Consultants may use the information during engagements to identify the presence of known issues in a client's environment and provide accurate details of the respective impact.

The level of detail that is included in the Public Disclosure to each of the above stakeholder groups will vary.

Exceptions

Accuvant LABS reserves the right to vary the terms of its Responsible Disclosure Policy in light of possible adverse consequences to clients and the public, information that is already public, or the vendor's response.

General Notes

Accuvant LABS uses the following email address for all disclosure communications:

research@accuvant.com

Appendix C contains the public key associated with the above address.

Email is used as the default communication method, unless a vendor has published preferences for vulnerability disclosure communications. When a vendor has published alternate preferences, it is at Accuvant LABS' discretion whether or not to honor the published preference.

All vendor communications will be directed to the vendor's publicly identified security contact, if one is made available to the public via the vendor's primary website. If a security contact cannot be identified or becomes unresponsive, Accuvant LABS will identify and use a contact from the vendor's product support team to the extent such a contact is known or can be publically identified.

All public communications will be directed to the following mailing lists and posted to Accuvant's public site, or any others deemed appropriate:

bugtraq@securityfocus.com

full-disclosure@lists.grok.org.uk

<http://www.accuvant.com/research.html>

Records of all communications will be maintained indefinitely, but at a minimum until a solution to the vulnerability is available.

Appendix A: Notification Template

Date: [Today's Date]

To: [Recipients]

From: Accuvant LABS Research <research@accuvant.com>

Subject: Notification of Security Issues in [Product(s)] [Issue Id]

This message serves to notify appropriate personnel of security issues related to [Company] products. Please forward this message to the appropriate party if it is not you.

Enclosed you will find details concerning a security issue in one or more of your products. We believe malicious users could exploit this issue to compromise the security of your customers.

Accuvant LABS follows its Responsible Disclosure Policy, which can be found at the following location:

<http://www.accuvant.com/Solutions/AccuvantLABS/Research>

As defined in our policy, we would like to offer assistance in the resolution of this issue and coordinate any disclosure of it.

Once you have reviewed the enclosed material and our disclosure policy, please respond with an acknowledgement for this notification within 30 business days to indicate your intent of participation in a coordinated effort on this issue.

For tracking purposes, please retain the subject line in all correspondence related to this issue.

We look forward to working with you.

Accuvant LABS Research

Appendix B - Disclosure Template

Date

[Date of Public Disclosure]

Summary

Accuvant LABS has discovered a security issue in [product].

[product] is [vendor description].

Specifically, [product] is vulnerable to [issue].

[remote/local/authenticated/anonymous/etc] attackers may exploit this issue to [impact] by [vector & dependencies].

Severity

The following criteria are used in Accuvant LABS' Severity Rating. This rating is often used to determine amount and priority of resources allocated to an issue. Readers should interpret this rating as a guide, instead of a rule, to be used when assigning a rating that factor in their unique situation.

Attack Perspective: Issues exploitable by anonymous remote attackers are generally more severe than ones exploitable by authenticated local attackers.

Attack Yield: Issues where attacks yield system level access to anonymous attackers are generally more severe than those yielding restricted privileges to authenticated attackers. Target characteristics often weigh heavily in this criterion. For example, targets typically deployed where attackers could exploit trust relationships to compromise an entire network will inherently carry more severity than those exposing a single system.

Dependencies: The following is a list of dependencies commonly encountered while exploiting vulnerabilities. In general, as dependencies increase, severity decreases for issues with otherwise equal attributes.

User Interaction - Issues requiring users to do something for exploitable conditions are less severe than those requiring nothing of a user.

Configuration - Issues where exploitation requires configurations recommended against by the vendor are less severe than those exploitable through vendor recommended configurations.

Accuvant LABS has specifically excluded many criteria used by other popular rating systems. Criteria such as exploit difficulty, exploit reliability, required attack skill set and other opinion-like measures are not considered in this rating.

Affected Components

[list of affected product versions]

This vulnerability has been confirmed to affect the following versions:

- 1.)
- 2.)

Other versions may also be affected.

Recommendation

[reference to patch, mitigating controls, configuration changes, or related strategies]

Credit

This vulnerability was discovered by [list of names].

Timeline

Vendor Disclosure Date

....

Public Disclosure Date

Details

[The purpose of this section is to provide supporting details for security engineers who wish to develop detection or protection for this security issue.]

[This section may contain disassembly, source code, packet traces or other support security engineers typically find useful while developing protection against security issues.]

[At a minimum, this section should include a reference to the vulnerable code and the related data streams and/or events required for triggering the issue.]

[Any variations between the triggers and what is normal/expected should be highlighted.]

Revision History

[Document all versions of this doc, starting with initial one sent as vendor notification.]

Appendix C - Public PGP Key

Below is the public PGP key associated with the following email account:

research@accuvant.com

-----BEGIN PGP PUBLIC KEY BLOCK-----

Version: PGP Desktop 10.0.0

```
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Appendix D - Graphical Disclosure Process

