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COORDINATED VULNERABILITY DISCLOSURE USER STORIES

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Purpose

This white paper provides a set of user stories intended to guide the development of a technical protocol and application programmable interface (API) for Coordinated Vulnerability Disclosure (CVD). These user stories reflect internal discussions with the CERT Coordination Center® (CERT/CC) based on our own experiences in developing and using the VINCE platform, as well as our ongoing CVD practice.

Scope

This white paper documents the various user stories which the CERT Coordination Center team could imagine. The user stories are expected to be utilized by the reader to better understand, create, and implement a CVD Protocol. In addition, the CERT/CC believes these use cases are suitable for any enterprise designing or implementing its own CVD policies, processes, and procedures.

Definitions and Abbreviations

We will make use of the following terms in this white paper.

CVD Case The unit of work for the overall CVD process for a specific vulnerability spanning the individual CVD Case Participants and their respective report handling processes.

Vulnerability Report The unit of work which contains information about a vulnerability, created by a *Finder* or *Reporter* and sent to a *Vendor* or *Coordinator*.[1]

CVD Case Participant Finder, Reporter, Vendor, Deployer or Coordinator as defined in the *CERT Guide to Coordinated Vulnerability Disclosure* (a.k.a. "the CVD Guide") [1]. In the context of the user stories a *Participant* may be in any CVD role.

Throughout this document, we will be referring to the CVD Roles from the CERT Guide to Coordinated Vulnerability Disclosure [1,2].

Finder (Discoverer) the individual or organization that identifies the vulnerability

Reporter the individual or organization that notifies the vendor of the vulnerability

Vendor the individual or organization that created or maintains the product that is vulnerable

Deployer the individual or organization that must deploy a patch or take other remediation action Our *Deployer* role is synonymous with the *User* role in ISO/IEC 29147:2018 and ISO/IEC30111:2019 [3, 4], while the other roles are consistently named.

Coordinator an individual or organization that facilitates the coordinated response process

CVD Phases are the phases which a CVD process may use to track and identify what work needs to be completed to move to the next phase. The phases include:

- **Discovery** A researcher (not necessarily an academic one) discovers a vulnerability by using one of numerous tools and processes.
- **Reporting** A researcher submits a vulnerability report to a software or product vendor, or a third-party coordinator if necessary.
- Validation and Triage The analyst validates the report to ensure accuracy before action can be taken and prioritizes reports relative to others.
- **Remediation** A remediation plan (ideally a software patch but could also be other mechanisms) is developed and tested.
- **Public Awareness** The vulnerability and its remediation plan is disclosed to the public.
- **Deployment** The remediation is applied to deployed systems.

Meta-coordination refers to the support of tools and operational processes such as those listed here:

- **Policy:** A participant may have their own CVD policies and procedures, or they may follow a Vendor's or Coordinator's policies. CVD policies should be public to allow all potential participants to know what the policies are for working with you/your company/organization.
- **Community** (finder/reporter, technical affinity): Vendors, suppliers and customers have a clear relationship. Often a vulnerability in one supplier affects multiple Vendors.
- Monitoring (including IR): Monitoring should include awareness of what is happening in the Vendor's company (Incident Response, CSIRT and PSIRT activities) and what is being discussed on social media platforms. Participants that wish to stay informed of new vulnerabilities and areas of interest, may identify a potential vulnerability in their own product.
- **OpSec**: Operational Security is focused on the tools necessary to enforce the embargo while allowing secured or encrypted communications among the participants. All information related to the CVD case should be stored securely.
- Infrastructure: The tools which provide the secured or encrypted channel for communication, provide, and support unique CVD case numbers, or implement the authentication/authorization in support of the CVD activities.

Abbreviations

CVD Coordinated Vulnerability Disclosure

VDP Vulnerability Disclosure Program

IR Incident Response

OpSec Operations Security

User Stories

Using the terms above, the CERT/CC has developed the following user stories to identify the participants, CVD phases and Meta Coordination tools and functions to support each story.

As a Participant

User Story CVD-API-003-2

As a Participant I want to receive vulnerability reports that I have submitted through a platform so that I can participate and track coordination efforts

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Infrastructure

User Story CVD-API-004-3

As a Participant I want to Discover others' policies

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy

User Story CVD-API-005-15

As a Participant I want to provide information about my bug bounty program to entice reporters to use it.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases': Reporting

Meta-coordination: Policy and Community (finder/reporter, tech affinity)

User Story CVD-API-006-3.1

As a Participant I want to parse/evaluate Policies

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy

User Story CVD-API-007-3.2

As a Participant I want to optimize all the policies involved

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy

User Story CVD-API-008-3.3-3.6

As a Participant I want decide if I will/can engage

- throw a flag if policy trouble detected
- warn participant and need to invoke other channels/humans
- want to post/publish/advertise my policy

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy

User Story CVD-API-009-9

As a Participant I want to Publish/share/advertise embargo dates, have hard and absolute limits, have a default/starting point, be able to extend, and propose and accept, stop when all accepts

- have a default/starting point
- be able to extend
- propose and accept
- stop when all accepts

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter, tech affinity)

User Story CVD-API-010-16

As a Participant, I want to report a (new) vulnerability

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: None

User Story CVD-API-011-17

As a Participant I want to Add a participant? (de-duplicate)

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Analysis and Remediation

Meta-coordination: Community (finder/reporter, tech affinity)

User Story CVD-API-012-18

As a Participant, I want to negotiate embargo/disclosure schedules, modify/renegotiate then, and know when others have published

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation and Public Awareness

Meta-coordination: Policy

User Story CVD-API-043-21

As a participant, I want notify others of my intent (date) to publish.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: None

User Story CVD-API-044-21.1

As a participant, I want limited/ACK of vulnerability/and have full/proper advisory

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: None

User Story CVD-API-013-24

As a Participant, I want to share my draft publication with others

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: None

User Story CVD-API-014-25

As a Participant, I become aware of the existence of public exploit PoC and want to tell others

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, and Public Awareness

Meta-coordination: Monitoring (including IR)

User Story CVD-API-016-26

As a Participant, I become aware of exploitation in the wild of public, exploit PoC and want to tell others

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, and Public Awareness

Meta-coordination: Monitoring (including IR)

User Story CVD-API-017-27

As a Participant, I want to publish a vulnerability (external to protocol)

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: None

User Story CVD-API-019-28

As a participant, I want to share/publish/advertise my policy including language, locale, national/regional/localness to make sure that we have a common frame of reference or context that sets expectations on the CVD process and its communications.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter, tech affinity)

User Story CVD-API-045-29

As a participant, I want to share/publish/advertise the scope (e.g., products, version ranges, sites/domains) of my CVD capability.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter, tech affinity)

User Story CVD-API-022-33

As a participant, I want to constrain whom I communicate with because I want to enforce an embargo and communicate only with those who have a need to know.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, Analysis and Remediation

Meta-coordination: Community (finder/reporter, tech affinity) and OpSec

User Story CVD-API-123-34

As a Participant I want to Address participants constraints, e.g., entity lists

Roles: Finder, Reporter. Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Community

User Story CVD-API-124-35

As a Participant I want to Address participants constraints, e.g., e As a vendor or coordinator, I want others to find my information and reporting intake (duplicate of X)

Roles: Finder, Reporter. Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter)

User Story CVD-API-048-37

I want to discover and use/map to a global/shared case ID (might just be a GUID assigned at first notification, CVE is a partial example, vxref).

Roles: Finder. Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, Analysis and Remediation, and Public Awareness

Meta-coordination: Infrastructure

User Story CVD-API-052-53

want to use my global/federated user ID to interact with other participants

Roles: Finder. Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, Analysis and Remediation and Public Awareness

Meta-coordination: OpSec, and Infrastructure

User Story CVD-API-053-54

I want to have confidence in the identity and group membership of others (and be willing and able to use others' groups)

Roles: Finder. Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Community (finder/reporter), OpSec, and Infrastructure

User Story CVD-API-028-71

As a participant I want to add (declare and notify others) new participants to a case

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, and Analysis and Remediation

Meta-coordination: Policy, Community (finder/reporter), Infrastructure

User Story CVD-API-028-73

As a participant I want to propose new participants to a case

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, and Analysis and Remediation

Meta-coordination: Policy, Community (finder/reporter), Infrastructure

User Story CVD-API-028-74

As a participant I want to vote/accept new participants to a case

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, and Analysis and Remediation

Meta-coordination: Policy, Community (finder/reporter), Infrastructure

User Story CVD-API-100-75

As a Participant, I want to state that I paid or received a bounty.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: None

User Story CVD-API-101-76

As a Participant, I want to ask if another participant paid a reporter/finder.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: None

User Story CVD-API-102-77

As a Participant, I want to ask a reporter if they were paid.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: None

User Story CVD-API-103-78

As a Participant, I want to share a draft advisory with others

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation

Meta-coordination: Policy and Infrastructure

User Story CVD-API-104-79

As a Participant, I want to share a draft advisory with others and request feedback (including status)

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation

Meta-coordination: Policy and Infrastructure

User Story CVD-API-105-81

As a Participant, I want to request an advisory (draft) from a participant.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, Analysis and Remediation

Meta-coordination: Policy and Infrastructure

User Story CVD-API-106-82

As a Participant, I want to request someone else's (vendor) status so I can note changes in other status.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation

Meta-coordination: Policy and Community (finder/reporter)

User Story CVD-API-107-83

As a Participant, I want to state my status, so others are aware of it.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, and Deployment

Meta-coordination: None

User Story CVD-API-108-84

As a Participant, I want to include a non-vendor role participant in a case.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, Analysis and Remediation, and Public Awareness

Meta-coordination: Community (finder/reporter)

User Story CVD-API-109-88

As a Participant, I want to include the Government (some/any part, could include regulator groups so that they may participate in the case

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Analysis and Remediation, Public Awareness, and Deployment

Meta-coordination: Policy, Community (finder/reporter) and Monitoring (including IR)

User Story CVD-API-128-89

As a Participant, I want to include the industry/trade groups so that they may participate in the case

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Analysis and Remediation, and Public Awareness

Meta-coordination: Policy, Community (finder/reporter) and Monitoring (including IR)

User Story CVD-API-110-90,91,92

As a Participant, I want to stop participating in the case

- and inform others that I am no longer participating.
- and no longer will receive or reply to forwarded queries.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, Deployment

Meta-coordination: Community (finder/reporter, tech affinity)

User Story CVD-API-111-93

As a Participant, I want to tell others that I published so that they can know about the vulnerability and the mitigation or remediation.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: Community (finder/reporter)

User Story CVD-API-112-94

As a Participant, I want to convey how information I provide can be used so that others can apply the mitigation or remediation correctly.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, and Deployment

Meta-coordination: OpSec

User Story CVD-API-113-95

As a Participant, I want to convey how information I provide can be used while obeying the TLP restrictions that others can apply the mitigation or remediation correctly.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, and Deployment

Meta-coordination: Policy, OpSec and Infrastructure

User Story CVD-API-114-96,97

As a Participant, regarding the handling of restricted information, I want to convey what

- Restricted information or degree of restriction I will accept so that I won't be accused of mishandling restricted information.
- TLP restricted information or degree of restriction I will accept so that I won't be accused of mishandling TLP restricted information.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy, Community (finder/reporter), OpSec, and Infrastructure

User Story CVD-API-029-98

As a Participant, I want to keep track of events and timelines so that I have a complete report and don't miss a deadline

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness and Deployment

Meta-coordination: Monitoring (including IR) and Infrastructure

User Story CVD-API-030-99

As a Participant, I want to see response times/states of other participants so that I can be prepared for the next state in the CVD process.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, and Deployment

Meta-coordination: Monitoring (including IR) and Infrastructure

User Story CVD-API-031-102

As a Participant, I want to be able to ask further questions about a report, to ensure I fully understand the vulnerability and mitigation or remediation options.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, and Deployment

Meta-coordination: Infrastructure

User Story CVD-API-125-105

As a Participant, other, I want to publicly disclose sooner than others but minimize their (the other's) exposure/risk.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: Policy, and Monitoring (including IR)

User Story CVD-API-116-122

As a Participant, I want to communicate with all participants associated with this CVD.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: Infrastructure

User Story CVD-API-117-106

As a Participant, I want to communicate important public state change message/information with all participants.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, and Analysis and Remediation

Meta-coordination: Monitoring (including IR) and Infrastructure.

User Story CVD-API-118-123

As a Participant, I want to communicate with non-vendor participants, primarily other defenders, providers, CSIRTs, regulators, etc., important information.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter)

User Story CVD-API-119-108

As a Participant, I want to contribute to the creation, modification, and publication of an advisory.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Public Awareness

Meta-coordination: Infrastructure

User Story CVD-API-120-111

As a Participant, I will prioritize my response to requests for information or action so that I contribute to a rick-minimizing CVD process and outcome.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization

Meta-coordination: Monitoring (including IR)

User Story CVD-API-121-112

As a Participant, I want to share and receive information I can use to prioritize my work regarding the vulnerability report.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization

Meta-coordination: Monitoring (including IR)

User Story CVD-API-122-113

As a Participant, I want to avoid missteps by maintaining knowledge of the state of the case and what options are available.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, Deployment

Meta-coordination: Policy, Monitoring (including IR), and Infrastructure

User Story CVD-API-062-114,115,116

As a Participant, I want/need a mechanism which will

- Assure me of the authentication and verify integrity of messages
- Ensure the appropriate level of authentication of all participants;
- Ensure the confidential transport and storage of information.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: No Phases

Meta-coordination: OpSec and Infrastructure

User Story CVD-API-063-117, 117.1

As a Participant, I want to know who else is participating in a case to

- Avoiding disclosure outside of the embargo group;
- Ensure the participant list is complete.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, Deployment

Meta-coordination: Community (finder/reporter, tech affinity), OpSec and Infrastructure

User Story CVD-API-064-118,119,120

As a Participant, I concerned about my reputation and the reputation of other participants. Assurances may be received by:

- Assessing the reputation of others so that I can decide to engage again;
- Creating a record or log of my trust in and the reputation of others so I can decide to engage again;
- · By providing evidence of and documenting my reputation to others so they can decide to engage with me.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Community (finder/reporter, tech affinity), OpSec and Infrastructure

User Story CVD-API-065-121

As a Participant, I want to create, define, and organize my own groups of other participants so that I can communicate successfully, participate fully and understand their requirements.

Roles: Finder, Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Community (finder/reporter, tech affinity), OpSec and Infrastructure

As a Finder

User Story CVD-API-037-1

As a Finder I want to discover how to report a vulnerability so that I can alert the affected vendors

Roles: Finder

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter)

As a Reporter

User Story **CVD-API-061-110**

As a Reporter I want to be rewarded with a bounty

Roles: Finder

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter)

As a Coordinator

User Story CVD-API-039-33.3

As a Coordinator, I want to constrain whom I communicate with to work within an embargo and communicate only with those who have a need to know.

Roles:

CVD Phases: Reporting, Validation and Prioritization, and Analysis and Remediation

Meta-coordination: None

User Story CVD-API-040-103

As a coordinator, I want to drive better (shorter?) embargo timelines, to ensure they are feasible.

Roles: Coordinator

CVD Phases: Public Awareness

Meta-coordination: Policy

User Story CVD-API-041-104

As a coordinator, I want to collect and optimize embargo timelines of all participants (probably duplicate of above) to ensure the timelines are feasible.

Roles: Coordinator

CVD Phases: Public Awareness,

Meta-coordination: Policy

As a Finder / Reporter / Coordinator

User Story CVD-API-066 -125

As a Coordinator I want to validate the report received from Reporter or Finder before deciding to begin CVD for the potential case.

Roles: Coordinator, Finder, Coordinator

CVD Phases: Reporting, and Validation and Prioritization

Meta-coordination: none

User Story CVD-API-127-126

As a Coordinator I want to collect artifacts such as PoC exploit (Proof-of-Concept), code control flow analysis (static or dynamic) that can enable our validation of the vulnerability being reported.

Roles: Coordinator

CVD Phases: Reporting, and Validation and Prioritization

Meta-coordination:

User Story CVD-API-038-33.1

As a Finder/Reporter, I want to constrain whom I communicate with because I want to maintain my anonymity.

Roles: Finder, Reporter

CVD Phases: Reporting, and Analysis and Remediation

Meta-coordination: none

As a Vendor / Deployer

User Story CVD-API-046-33.2

As a Vendor/Deployer, I want to constrain whom I communicate with until a patch or mitigation has been published and released.

Roles: Vendor, Deployer

CVD Phases: Validation and Prioritization, and Analysis and Remediation

Meta-coordination: none

As a Reporter / Vendor / Coordinator / Other

User Story CVD-API-050-46

As a Reporter, Vendor, Coordinator, Other, I want to ask participant A if participant D is in a case (Operator may decide/policy, may be based on whether C and D are in the same case) "A" may or may not answer, that is their policy (participant may decide/policy, may be based on whether C and D are in the same case)

Roles: Reporter, Vendor, Coordinator, Other

CVD Phases: Analysis and Remediation

Meta-coordination: Policy, and Community (finder/reporter, tech affinity)

As a Finder / Reporter / Deployer / Coordinator / Other

User Story CVD-API-059-107

I want to publish vulnerability advisories (As a non-vendor participant I want to be informed of CVD to perform activities like risk assessment, mitigation, verify mitigation, not be surprised, prepare messaging, etc.)

Roles: Finder. Reporter, Deployer, Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Policy and Community (finder/reporter, tech affinity)

As a Vendor / Coordinator / Other

User Story CVD-API-047-36

As a vendor, coordinator or other, I want to assign my own ID to a case.

Roles: Vendor. Coordinator, Other

CVD Phases: Reporting

Meta-coordination: Infrastructure

As a Vendor / Coordinator

User Story CVD-API-057 -57

As a vendor or coordinator, I want to receive vulnerability reports

Roles: Vendor. Coordinator

CVD Phases: Reporting

Meta-coordination:

As a Coordinator / Other

User Story CVD-API-115-100

As an Other, (a VDP operator), I want the CVD protocol to also support VDP

Roles: Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, Deployment

Meta-coordination: Policy, Community (finder/reporter), Monitoring (including IR), OpSec, and Infrastructure

As a Finder / Reporter / Vendor / Coordinator / Other

User Story CVD-API-049-39

I want to get from another participant a list of cases I am involved in with them unicast, multicast, broadcast

- use/require a shared vul ID space / cross reference
- aliases/vxref equals
- shared record/ledger
- Search/filter

Roles: Finder. Reporter, Vendor, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, Deployment

Meta-coordination: Infrastructure

User Story CVD-API-039-49

I want to request/state that I do not want others to know I am in a case

- Participant still gets to decide their policy
- Covers researcher asking for anonymity
- Vendor can ask not to be listed and operator can disagree/still list

Roles: Finder. Reporter, Vendor, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, De-

ployment

Meta-coordination: Policy, and Infrastructure

As a Vendor

User Story CVD-API-060-109

want to reward the reporter by paying a bounty.

Roles: Vendor, Reporter

CVD Phases: Public Awareness

Meta-coordination: None

As a Reporter / Vendor / Deployer / Coordinator / Other

User Story CVD-API-057-57

I want to ask questions and generally communicate with another case participant

Roles: Reporter, Vendor. Deployer. Coordinator. Other

CVD Phases: Reporting

Meta-coordination: None

User Story CVD-API-024-63

As a Reporter, Vendor, Deployer, Coordinator, or Other, I want to communicate in a common case channel

Roles: Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation

Meta-coordination: Infrastructure

User Story CVD-API-025-64

As a Reporter, Vendor, Deployer, Coordinator, or Other I want to communicate with selected case participants

Roles: Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation

Meta-coordination: Infrastructure

User Story CVD-API-026-65

As a Reporter, Vendor, Deployer, Coordinator, or Other, I want to produce a shared, verified public record of case activity

Roles: Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Reporting, Validation and Prioritization, Analysis and Remediation

Meta-coordination: Policy, OpSec and Infrastructure

User Story CVD-API-027-66-67

As a Reporter, Vendor, Deployer, Coordinator, or Other I (we) (might) want the case to have a leader (global case owner)

- Propose a leader, optionally offer self, step down (see d)
- vote/accept
- Announce case leader to all participants
- (a, b, and c mean you can: Transfer global case owner to someone else)

Roles: Reporter, Vendor, Deployer, Coordinator, Other

CVD Phases: Validation and Prioritization, and Analysis and Remediation

Meta-coordination: Policy and Infrastructure

Special Case

The CERT/CC has reviewed these User Stories and identified one, on publishing advisories, as out of scope. In addition, we have identified as two other User Stories as underspecified.

Not in Scope

User Story CVD-API-056-56

want to publish vulnerability advisories

Roles: Vendor

CVD Phases:

Meta-coordination: None

Underspecified

User Story CVD-API-055-124

As a vendor, coordinator or other, I want to be included on a distribution list for advisories which must be clearly identified as public or non-public.

Roles: Vendor. Coordinator, Other

CVD Phases:

Meta-coordination: Infrastructure

User Story CVD-API-054-55

To what extent is authentication/authorization part of the CVD protocol?

Roles: Finder. Reporter, Deployer, Coordinator, Other

CVD Phases: Discovery, Reporting, Validation and Prioritization, Analysis and Remediation, Public Awareness, De-

ployment

Meta-coordination: Infrastructure

References/Bibliography

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Revision History

Rev	Description of Change
1	Initial Release

Legal Markings

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