Autonomous Vehicle Cybersecurity Development Lifecycle (*AVCDL*)

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Version 51

9/2/2022 12:21:00 AM

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# Introduction

## Abstract

This material documents the Autonomous Vehicle Cybersecurity Development Lifecycle (***AVCDL***).

## Questions, Errors and Other

This documentation is maintained by [Charles Wilson](mailto:charles.wilson@motional.com?subject=AVCDL%20process%20documentation%20query&body=I%20have%20a%20question%20about%20the%20SDL%20process%20documentation.). Please feel free to reach out should you have any questions.

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## Organization

This document is organized as follows:

Diagram

Description automatically generated

Figure - Document Organization

As can be seen, there are three sections:

* Introductory material
* Framework (main AVCDL material)
* Supplementary material

## Introductory Material

The introductory material provides a general overview of the **AVCDL**, its philosophy, and background material. It also discusses how continuous improvement is measured and tracked. The relationship between the **AVCDL** and **ISO 21434** is explored, as is how hardware and software are treated.

## Framework

This is the core of the AVCDL. An overview of the AVCDL framework is presented. Following that each phase of the lifecycle is summarized, and the associated phase requirements are detailed. Reference to the associated **ISO 21434** work products and requirements are included.

## Supplementary Material

The supplementary material falls into two broad categories. The first is background material. These include **NCWF [10]**, **MSSDL**, and **SSDF**. The second is summary material. This includes RACI rollup, secondary document lists, a continuous improvement example, phase dependency graphs and recommended training sequence.

**Note:** Both the main **AVCDL** and its secondary documents are process in nature. They do not specify the tools and specific techniques used to accomplish their tasks. As such, the **AVCDL** is suitable for use by any organization engaged in development related to autonomous vehicles. It is presumed that each organization adopting the **AVCDL** will create a set of tertiary documents supporting the secondary ones. These tertiary documents will be procedural. Additionally, there may be multiple tertiary documents supporting a given secondary document. For example, a secondary document on secure code review might be supported by multiple tertiary documents, one for each programming language.

# Overview

## 2.1 What it is

The **AVCDL** is a set of identified processes, requirements of those processes, generated products, and mappings from the generated products to their corresponding certification standard (**ISO/SAE 21434, UNECE WP.29**) work products: for the purpose of ensuring the creation of secure systems. It is intended to support auditing of the development process in cybersecurity as specified in those standards.

## 2.2 What it isn’t

The ***AVCDL*** does not attempt to specify:

* implementation methodology (waterfall, V-model, agile-scrum, agile-Kanban, TDD, BDD, spiral, …)
* specific development tools (source code control, build system, compilers, threat modeling tools, static analysis tools, …)
* remediation methodology

## 2.3 Where it fits

The **AVCDL** is not a standalone solution. It is intended to implement the non-governance elements of a larger product development lifecycle framework (**AVPDL**). Moreover, it is designed to overlay the system (**ISO/IEC 15288**) and software (**ISO/IEC 12207**) lifecycles; and complement the safety (**ISO 26262**) lifecycle.

We can visualize the relationship between the **AVCDL,** and various standards as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **AVPDL** | **AVCDL** | **15288** | **12207** | **26262** | **21434** |
| organization processes | N/A | technical processes | technical processes | management of functional safety | overall cybersecurity management |
| supporting processes | project dependent cybersecurity management |
| foundation phase | [foundation phase](#_9.1_Foundation_Phase) | N/A | N/A | concept phase | concept phase |
| requirements phase | [requirements phase](#_9.2_Requirements_Phase) | requirements definition | requirements definition | safety requirements | cybersecurity requirements |
| requirements analysis | system requirements analysis | hazard analysis / risk assessment | cybersecurity assessment |
| design phase | [design phase](#_9.3_Design_Phase) | architectural design | system architectural design | architectural design | cybersecurity design |
| implementation phase | [implementation phase](#_9.4_Implementation_Phase) | implementation | implementation | implementation | development |
| integration | system integration | integration and verification | integration and verification |
| verification phase | [verification phase](#_9.5_Verification_Phase) | verification | system qualification testing |
| transition | software installation |
| software acceptance support |
| release phase | [release phase](#_9.6_Release_Phase) | validation | production | production |
| operation phase | [operation phase](#_9.7_Operation_Phase) | operation | software operation | operation, service, and decommissioning | continuous cybersecurity activities |
| maintenance | software maintenance | operation and maintenance |
| decommissioning phase | [decommissioning phase](#_9.8_Decommissioning_Phase) | disposal | software disposal | decommissioning |
| supplier processes | N/A | agreement processes | agreement processes | supporting processes | distributed cybersecurity activities |

Table - Relationship Among Standards

**Note:** The **AVCDL** does not attempt to address either the organization or supplier-related processes managed at the organizational level.

# Philosophy

The creation of secure software is not simply a programming endeavor. It begins with ensuring all team members understand how software and systems are made secure; requires the additional stages in the design and testing phase; and permeates all typical development practices.

It is impossible to integrate security into a large operational system in a single pass. This is a reality stemming from the lack of security focus within the computing industry. To be effective, security must be seen as emergent property and not an adjunct capability. This stands in contrast to the recent trend toward minimal functional development. For a system to be secure it must be secure by design, not coincidence. Therefore, there are some foundational elements which should be in place prior to implementation.

Given the scope of the problem space, the most appropriate approach entails:

* creation of an [**implementation framework**](#_Implementation_Framework)
* [**continuous improvement**](#_Continuous_Improvement) of the security posture

## 3.1 Organizational Participation

Beyond being a collection of activities, the ***AVCDL*** has implicit in its structure and implementation the participation of various groups throughout the organization. As can be seen from the previous section ([**Where It Fits**](#_Where_it_fits)), **ISO 21434** is just one standard among many that must be satisfied. Each of these standards is primarily the responsibility of a single group (**‘288** – systems engineering, **‘207** – software development, **‘262** - safety). Beyond these are the project and product management teams, as well as the other organization groups, such as devops and quality management. To achieve compliance with these standards, it is necessary for there to be both communication and coordination of activities between these groups.

Although most of the activities described in the ***AVCDL*** are the responsibility of the cybersecurity group, they are not solely responsible. This distribution of responsibilities is summarized in the [**Groups**](#_11._Groups) section of the document. Additionally, the specific responsibilities of each activity are documented both in a summary form in each phase requirement and a highly detailed form in each of the ***AVCDL*** secondary documents which show activity workflows.

## 3.2 Information Sharing

Any sufficiently complex product will require contributions from multiple groups within the organization. This being the case, it is a base assumption of the ***AVCDL*** that information sharing between groups is established within an organization. All input materials feeding, and output materials generated in the execution of ***AVCDL*** phase requirement activities are presumed to be made available to the organization within the context of appropriate information sharing as dictated by the organization’s communication policies. It is further presumed that mechanisms exist to inform various groups when the state of shared information becomes available or changes. It is outside the scope of the ***AVCDL*** as to either the underlying organizational policies, groups involved, or notification mechanisms used by any organization in implementing information sharing. The specific external information required is indicated in each phase requirement in the **External Group Dependencies** section.

## 3.3 Inter-group Communication

It is not the intent of the ***AVCDL*** to dictate or elaborate on the necessity of effective inter-group communication within an organization. It is assumed that where non-cybersecurity groups are involved in the fulfillment of phase requirements that the management of all involved groups ensure a timely and cooperative level of engagement. This is, of course, the responsibility of the organization’s leadership, but bears repeating.

Each phase requirement clearly indicates the four main groups involved in their completion. Additionally, as mentioned above a summary of these primary groups and their level of responsibility is provided in the [**Groups**](#_11._Groups) section of the document. Additional elaboration on the individuals involved in the execution of the workflows used to attain the work products for the phase requirements is provided in each of the secondary documents associated with the various phase requirements. It is presumed that these will be used not only for project planning, but also to ensure that the appropriate groups are engaged in a timely manner.

## 3.4 Reference to Groups

As mentioned above, within the ***AVCDL*** document set there are four primary groups responsible for the execution of the phase requirements. These are:

### 3.4.1 Cybersecurity

This group is the primary focus of the ***AVCDL*** documents. Alternately, the term **security** may be used when referring to the group or its members.

### 3.4.2 Development

This is the group responsible for the creation of the product. It is presumed to include all teams responsible for creation and implementation of the product’s functional requirements. These include systems, hardware, and software development functions.

### 3.4.3 DevOps

This is the group responsible for the creation and management of the software and systems used in the assembly of the product’s software. It may also be responsible for the systems used to track hardware related metadata. This may exist either as a distinct functional group or be part of the development organization. Within the context of the ***AVCDL*** it will be treated as a distinct group.

### 3.4.4 Risk

This is the group responsible for the assessment of risk to the product. Members of this groups are presumed to have expertise in one of the four areas of risk identified in **EVITA D2.3 - Security requirements for automotive on-board networks based on dark-side scenarios**section 2.7 **Overview of risk analysis [16]**. The risk categories are safety, finance, organizational, and privacy. These may exist either within a distinct functional group or be part of their respective groups within the organization. The distinction depends upon the size and maturity of the organization. Within the context of the ***AVCDL*** it will be treated as a distinct group capable of assessing risk from any of the abovementioned risk areas. When used generically **risk** may be considered to refer to either the general or specific category, depending upon the audience.

# Background Material

The ***AVCDL*** is based on methodologies proven in industry as well as standards bodies’ recommendations. These include **MSSDL [6]**, **SSDF [11],** **ISO 21434 [4]**, and **ISO 26262**.

## 4.1 Contribution Sources

The following are the major sources of contribution to the ***AVCDL***.

### 4.1.1 Microsoft SDL (MSSDL)

The archetype for the cybersecurity development lifecycle is the Microsoft SDL (**MSSDL**). It divides the development process into seven phases. These phases form a cycle of ever-improving security posture.

### 4.1.2 NIST SSDF (SSDF)

The NIST Secure Software Development Framework (**SSDF**) provides a more general approach which calls out several practices and provides references to the applicable standards. Within each of these are multiple practices and tasks.

The advantage of the **SSDF** over the **MSSDL** is that it provides a greater level of specificity and better supports existing international standards. It also calls out practices assumed, but not specified in the **MSSDL**.

### 4.1.3 ISO/SAE 21434 (’434)

Road Vehicles - Cybersecurity Engineering (**’434**) is intended to address the cybersecurity aspects of electrical and electronic (E/E) systems within road vehicles. Its goal is to enable organizations to:

* define cybersecurity policies and processes
* manage cybersecurity risk
* foster a cybersecurity culture

Like the **MSSDL**, the development process is divided into phases.

Unlike **MSSDL** and **SSDF**, which are lifecycle-focused, non-domain-specific documents, **’434** is a regulatory-focused, domain-specific (road vehicle E/E systems) work.

### 4.1.4 ISO 26262 (’262)

Road vehicles — Functional safety (**’262**) is intended to address the safety aspects of electrical and electronic (E/E) systems within road vehicles. Although not used as a primary source reference for the **AVCDL**, the **AVCDL** can be aligned to it. This allows for easier integration with existing development processes.

### 4.1.5 ISO/IEC/IEEE 12207 (’207)

Systems and software engineering – Software life cycle processes (**’207**) provides a set of processes required to systematically implement a development lifecycle. This should be considered the grounding process alignment document.

### 4.1.6 UNECE TRANS WP.29 GRVA (WP29)

The United Nations’ Economic Commission for Europe’s Inland Transport Committee’s World Forum for Harmonization of Vehicle Regulations’ Working Party on Automated/Autonomous and Connected Vehicles (**WP29 [15]**) has created a set of guidance documents. Their intent is to

* [define] principles to address key cyber threats and vulnerabilities identified in order to assure vehicle safety in case of cyber-attacks
* [define] detailed guidance or measures for how to meet these principles … [including] examples of processes and technical approaches
* [consider] what assessments or evidence may be required to demonstrate compliance or certification with any requirements identified

These documents are intended to provide a common set of definitions and principles. For implementations, they point to specific standards, such as **‘262**, **‘434** and **ITU-T X.1500**. **UNECE** regulations **R155**, **R156**, and **R157** are the ones of specific interest. Within this document **WP.29** will be used to refer either the guidance documents or the specific regulations listed above.

## 4.2 Contributions Visualized

These sources come together as follows:



Figure - AVCDL sources

**Note:** The red rounded rectangles indicate corresponding **’262** processes.

# Continuous Improvement

The creation of secure software is not simply a programming endeavor. It begins with ensuring all team members understand how software and systems are made secure; requires the additional stages in the design and testing phase; and permeates all typical development practices.

As a system of systems, an autonomous vehicle will always be subject to variable-rate development. Each system within the system of systems is developed at a rate which may (and probably does) differ from that of other systems. That being the case, it is highly unlikely that the security profile of the system of systems will be the same as any individual system within it. This motivates the adoption of a process of continual improvement within each of the constituent systems, driving toward an ever-improved overall security profile.

Continuous improvement is not merely *pro forma*, but requisite. Whether we are considering the initial implementation of security or ongoing development, there will be the need to develop and refine the security model. This will need to be done at every level of the system (physical, network, protocol, and application) as well as across all the various sub-systems. Given the time-consuming nature of threat modeling, risk assessment, and threat mitigation; the only practical approach is to apply ever-increasing levels of security. This may manifest as an outside-in approach wherein the external attack surfaces are secured first with the interior system following; or by addressing the fundamental mechanisms by which data is managed within the system; or a combination of the two, dependent upon the maturity of the security in place in any given sub-system.

The ***AVCDL*** itself will also be subject to continuous improvement. This may manifest in changes to individual phases and their associated requirements. It may include changes in ownership of various phase requirements. There will always be new tools to consider in implementation of the ***AVCDL***.

To track progress of implementation of the ***AVCDL*** within the organization, **ISO 21827** Systems Security Engineering - Capability Maturity Model (**SSE-CMM [13]**) will be used as criteria for evaluation. Additionally, applicable elements of Cybersecurity Maturity Model Certification (**US DoD CMMC [1]**) level assignments of the requirements called out in ***Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations*** (**NIST SP 800-171**) **[9]** are identified and tracked for each ***AVCDL*** phase requirement.

An example tracking report is shown [here](#_17._Continuous_Improvement_1).

# Relationship to Standards

As stated in the [**overview**](#_Overview_1), the ***AVCDL*** is a set of identified processes, requirements for those processes, generated products, and their mapping to the corresponding work products of various standards. This section will provide more detail about the relationship between the ***AVCDL*** and these standards.

## 6.1 Compliance versus Conformance

The ***AVCDL*** is designed to enable the organization to comply with the requirements of and enable the creation of products capable of satisfying the specifications for work products called by various certification standards. It does not conform to these standards in that it does not assume that any given certification standard’s structure matches the form of any given organization’s product development lifecycle framework, which encompasses development, safety, security and other needs. Any certification methodology with processes not conforming to the organization’s actual development processes will be error-prone and unsuccessful.

## 6.2 Product Mapping

The ***AVCDL*** is designed to overlay an **ISO 15288 [3] (‘288)** / **ISO 12207 [2] (‘207)** lifecycle. As such, roughly fifty products are generated during any given product release’s lifetime. The ***AVCDL*** provides mapping of these, which are the natural outcomes from implementation of cybersecurity best practices to their related standard work products. In this way, developmental friction is reduced as there is no expectation that individual contributors from any group (product management, risk, devops, development, …) be familiar with these standards and their details. This would, in fact, be seen as a negative as standards such as **’434** and **WP.29** are only the first of what will become many jurisdictional compliance standards needing to be complied with. By having a best practice lifecycle (***AVCDL***), we are more readily able to embrace compliance with regulatory standards as they appear. Additional details can be found in **AVCDL Phase Requirement Product ISO 21434 Work Product Fulfillment Summary**.

## 6.3 Interaction with ISO 26262

Although cybersecurity is mentioned several times within the **ISO 26262**, it is only formally addressed in clause 5.4.2.3 (**Safety culture – effective communication channels**) and annex E (**Guidance on potential interaction of functional safety with cybersecurity**) of part 2 (**Management of functional safety**). Given that annex E is an informative (non-normative) section, it contains no requirements or work products. There are multiple activities defined within the AVCDL that support the guidance given in annex E. Additional details can be found in **AVCDL Phase Requirement Product ISO 26262 Work Product Fulfillment Summary**.

# Hardware-Software Relationship

Upon reading the ***AVCDL***, the question often arises as to why there is no specific reference to the hardware aspects of cybersecurity and how this relates to **’434** work products. This section will provide more detail about the relationship between the two, as well as the implications with respect to **’434**.

## 7.1 *AVCDL* is about Process

The ***AVCDL*** is at the core a framework supporting a collection of processes implementing a set of requirements. As noted in the [**background** **material**](#_Background_Material), it is built assuming the presence of the **’288** and **’207** standards within the organization. It further presumes that a best practices hardware-software development strategy akin the that described in **’262** (V-model). The phases and their requirements are sufficient to cover both hardware and software.

This is not to say that there is no consideration of hardware within the realm of cybersecurity as applied to the product’s lifecycle. The cybersecurity requirements have explicit provision for hardware-specific requirements. Refer to the secondary document [**Security Requirements Taxonomy**](#ref_security_requirements_taxonomy) for additional details.

Any hardware-specific requirements are linked to specific product elements during the requirements phase as set out in the secondary document [**Product-level Security Requirements**](#ref_product_level_security_requirements).

## 7.2 ISO 21434 Compliance

The ***AVCDL*** is designed to enable the production of a supporting case for certification under various standards including **’434** and **WP.29 (R155, R156, R157)**. **’434** has no hardware-specific work products or requirements. There is the desire that we be able to show that we apply cybersecurity to both hardware and software. This will be evidenced through application of cybersecurity concepts, goals and requirements using the processes and requirements set out in the ***AVCDL***.

# Implementation Framework

# 8.1 Rectilinear Visualization

As indicated in the background section, the structure of the ***AVCDL*** is inspired by multiple standards and best practices documents.

It can be visualized as follows:



Figure - AVCDL phases and requirements

**Note:** The rectilinear nature of this diagram is for convenience only and is not intended to imply any particular implementation or the use of any specific development methodology.

# 8.2 Cyclic Visualization

The ***AVCDL*** can also be visualized as a cyclic system (only phases shown):

Diagram

Description automatically generated

Figure - AVCDL phases cyclic

# 8.3 Framework Categories

The process elements fall into three broad categories:

* **Foundational** process elements (shown in blue) form a foundation for secure development and take place outside the normal development cycle. These may be done in parallel and are subject to refresh as the security landscape changes. The basis for this phase comes from **MSSDL** and **’434**, and the practices from **SSDF**.
  + [Foundation](#_Foundation_Phase_1)
* **Intra-developmental** process elements (shown in green) serve to augment the existing development processes. The phases come from **MSSDL** and **’434**, and the practices from **SSDF**. To a large extent, the framework on which these phase augmentations hang already exists as part of the typical non-security-aware development process.
  + [Requirements](#_Requirements_Phase)
  + [Design](#_Design_Phase)
  + [Implementation](#_Implementation_Phase)
  + [Verification](#_9.5_Verification_Phase_1)
  + [Release](#_Release_Phase)

**Note:** In addition to its **’434**-supporting requirements, each of the intra-developmental phases has an exit gate requirement. There are no **’434** work products in the gate requirements as these are intended to verify the completion of the other requirements within the phase.

* **Post-developmental** phases (shown in yellow) take place once the product has been released.
  + [Operation](#_Operation_Phase)
  + [Decommissioning](#_Decommissioning_Phase)

# 8.4 Implementation Methodology

It is important to note that the **AVCDL** does not mandate an implementation methodology (waterfall, XP, BDD, TDD, scrum, Kanban, spiral, …). The phases are dictated by the work product dependencies which are more fully explored in the [AVCDL Product Dependencies](#_18._AVCDL_Product) section.

## 8.4.1 Linear Methodologies

If a linear implementation methodology (waterfall, V-model, …) is employed, the phase diagram ([above](#avcdl-implementation-framework)) can be used directly.

## 8.4.2 Cyclic Methodologies

If a cyclic implementation methodology (scrum-based agile, spiral, …) is employed, the intra-developmental phases overlay as follows:

Diagram

Description automatically generated

Figure - AVCDL-PDCA Phase Requirement Mapping

Since cyclic implementation methodologies use short activity windows (sprints), there is a need to offset the security activities. The following diagram illustrates how the activity cycle unfolds into linear time.

Timeline

Description automatically generated

Figure - Sprint-level Alignment

**Note:** The detailed requirements activity is performed one sprint in advance of design, and design one sprint in advance of implementation. A sprint SP0 is assumed to bootstrap the process.

# 8.5 Metrics

In processes where quantitative data is gathered, it is useful to gather and track metrics. Metrics may be used to determine whether a process is being applied effectively to the system.

Processes include (but are not limited to):

* Attack surface analysis
* Threat modeling
* Fuzz testing
* Static analysis
* Dynamic analysis
* Penetration testing

Metrics may include (but are not limited to):

* Code coverage
* Issue lifetime
* Issue frequency
* Criticality

When metrics are used, it is important for the organization to establish appropriate scope and thresholds.

# 8.6 Availability of Products and Materials

It is presumed that all AVCDL phase products and the materials used in the generation thereof are available and granted appropriate access throughout the organization.

Materials may include (but are not limited to):

* Incident reports
* Interface agreements
* Requirements
* Databases (tools, components, …)

Products may include (but are not limited to):

* Reviews
* Reports
* Machine-readable intermediaries

# 8.7 Freshness of Products and Materials

The AVCDL has been designed to ensure that, if followed, its products and materials reflect the current state of the product under development. It achieves this through a collection of supporting mechanisms.

**Note:** Product and material freshness is ensured regardless of development implementation methodology.

These mechanisms include (but are not limited to):

* Human-readable reports generated from machine-readable activity products
* Uniform inter-process data interchange formats
* Modern standard data interchange formats
* Databases in place of individual text files
* Explicit activity failure behaviors
* Uniform threat prioritization and risk management across all activities
* Explicit verification phase review of design phase activities (threat modeling, attack surface analysis)

# Process Phases and Requirements

The following is a summary of the AVCDL phases and their associated requirements.

* [Foundation](#_Foundation_Phase_1)
  + [Foundation-1](#_Training_[AVCDL-Foundation-1]) Training
  + [Foundation-2](#_9.1.2_Roles_and_1) Roles and Responsibilities
  + [Foundation-3](#_Toolchain_Support_[AVCDL-Foundation) Toolchain Support
  + [Foundation-4](#_Definition_of_Security) Definition of Security Requirements
  + [Foundation-5](#_Protect_the_Code) Protect the Code
  + [Foundation-6](#_Ensure_Release_Integrity) Ensure Release Integrity
  + [Foundation-7](#_Incident_Response_Plan) Incident Response Plan
  + [Foundation-8](#_Decommissioning_Plan_[AVCDL-Foundat) Decommissioning Plan
  + [Foundation-9](#_Threat_Prioritization_Plan) Threat Prioritization Plan
  + [Foundation-10](#_9.1.10_Deployment_Plan_1) Deployment Plan
* [Requirements](#_Requirements_Phase)
  + [Requirements-1](#_Security_Requirements_Definition) Definition of Security Requirements
  + [Requirements-2](#_Requirements_Gate_[AVCDL-Requiremen) Requirements Gate
* [Design](#_Design_Phase)
  + [Design-1](#_Apply_Security_Requirements) Take Security Requirements and Risk Information into Account During Software Design
  + [Design-2](#_Security_Design_Review) Review the Software Design to Verify Compliance with Security Requirements and Risk Information
  + [Design-3](#_Attack_Surface_Reduction) Attack Surface Reduction
  + [Design-4](#_Threat_Modeling_[AVCDL-Design-4]) Threat Modeling
  + [Design-5](#_Design_Gate_[AVCDL-Design-5]) Design Gate
* [Implementation](#_Implementation_Phase)
  + [Implementation-1](#_Use_Approved_Tools) Use Approved Tools
  + [Implementation-2](#_Configure_Build_Process) Configure the Compilation and Build Process to Improve Executable Security
  + [Implementation-3](#_Use_Secure_Settings) Configure the Software to Have Secure Settings by Default
  + [Implementation-4](#_Reuse_Well-Secured_Software) Reuse Existing, Well-Secured Software When Feasible Instead of Duplicating Functionality
  + [Implementation-5](#_Code_Securely_[AVCDL-Implementation) Create Source Code Adhering to Secure Coding Practice
  + [Implementation-6](#_Deprecate_Unsafe_Functions) Deprecate Unsafe Functions
  + [Implementation-7](#_Static_Analysis_[AVCDL-Implementati) Static Analysis
  + [Implementation-8](#_Dynamic_Program_Analysis) Dynamic Program Analysis
  + [Implementation-9](#_Security_Code_Review) Security Code Review
  + [Implementation-10](#_Implementation_Gate_[AVCDL-Implemen) Fuzz Testing
  + [Implementation-11](#_9.4.11_Implementation_Gate_1) Implementation Gate
* [Verification](#_9.5_Verification_Phase_1)
  + [Verification-1](#_Penetration_Testing_[AVCDL-Verifica) Penetration Testing
  + [Verification-2](#_9.5.2_Threat_Model) Threat Model Review
  + [Verification-3](#_Attack_Surface_Analysis) Attack Surface Analysis Review
  + [Verification-4](#_Verification_Gate_[AVCDL-Verificati) Verification Gate
* [Release](#_Release_Phase)
  + [Release-1](#_Final_Security_Review) Final Security Review
  + [Release-2](#_Archive_[AVCDL-Release-2]) Archive
  + [Release-3](#_9.6.3_Release_Gate_1) Release Gate
* [Operation](#_Operation_Phase)
  + [Operation-1](#_Identify_and_Confirm) Identify and Confirm Vulnerabilities on an Ongoing Basis
  + [Operation-2](#_Assess_and_Prioritize) Assess and Prioritize the Remediation of all Vulnerabilities
  + [Operation-3](#_9.7.3_Root_Cause_1) Analyze Vulnerabilities to Identify Their Root Causes
  + [Operation-4](#_Secure_Deployment_[AVCDL-Operation-) Secure Deployment
* [Decommissioning](#_Decommissioning_Phase)
  + [Decommissioning-1](#_Apply_Decommissioning_Protocol) Decommissioning Protocol

# 9.1 Foundation Phase

Predecessor: N/A

Successor: [Requirements Phase](#_Requirements_Phase)

These process elements form a foundation for secure development and take place outside the normal development cycle. These may be done in parallel and are subject to refresh as the security landscape changes.

## [[AVCDL-Foundation-1] Training](#_Training_[AVCDL-Foundation-1]) ([SSDF PO.1](#PO_1) / [MSSDL P1](#MS_P1))

This training ensures that the **AVCDL** and its requirements are understood by those interacting with it.

## [[AVCDL-Foundation-2] Roles and Responsibilities](#_9.1.2_Roles_and_1) ([SSDF PO.2](#PO_2))

It is critical to the success of any **AVCDL**-based project that the roles and responsibilities be defined and assigned prior to the phase to which they apply. These individuals serve as gatekeepers of security issues at the various phase gates.

## [[AVCDL-Foundation-3] Toolchain Support](#_Toolchain_Support_[AVCDL-Foundation) ([SSDF PO.3](#PO_3) / [MSSDL P8](#MS_P8))

Software supporting secure development must be evaluated, installed, and trained for.

## [[AVCDL-Foundation-4] Definition of Security Requirements](#_Definition_of_Security) ([SSDF PO.4](#PO_4) / [MSSDL P3](#MS_P3))

Before designing a secure system, it is necessary to have a clear and coherent set of security requirements.

These are the global security requirements as opposed to the more fine-grained requirements called out during the [requirements phase](#_Requirements_Phase).

## [[AVCDL-Foundation-5] Protect the Code](#_Protect_the_Code) ([SSDF PS.1](#PS_1))

The code storage and access should be set up in such a way as to prevent inadvertent or intentional unauthorized changes, inappropriate access, or theft.

## [[AVCDL-Foundation-6] Ensure Release](#_Ensure_Release_Integrity) Integrity ([SSDF PS.2](#PS_2))

To some extent, this could be considered part of toolchain support. Operations such as code signing, and root-of-trust fall into this process element.

## [[AVCDL-Foundation-7] Incident Response Plan](#_Incident_Response_Plan) ([MSSDL P14](#MS_P14))

The incident response plan covers the mechanisms needed for dealing with both internal and externally discovered security issues.

## [[AVCDL-Foundation-8] Decommissioning Plan](#_Decommissioning_Plan_[AVCDL-Foundat)

A framework must be in place for the eventual removal from service of an in-use system. This should cover the proper handling for any sensitive data embodied in the system.

## [[AVCDL-Foundation-9] Threat Prioritization Plan](#_Threat_Prioritization_Plan) ([MSSDL P3](#MS_P3))

A mechanism for quantifying potential risks and prioritizing their disposition must be established. This may take the form ranging from a gross-level quantization (bug bar) to a formal methodology (TARA).

## [[AVCDL-Foundation-10] Deployment Plan](#_9.1.10_Deployment_Plan_1)

A framework must be in place for the loading of software onto the system. This should include both the initial loading / configuration and updating. This should cover the proper handling for any sensitive data to be embodied in the system.

Foundation phase product dependencies are visualized in Figure 8.

## ISO 21434 Required Work Products

[WP-05-04] Evidence of tool management

[WP-08-01] Sources for cybersecurity monitoring

[WP-08-02] Triage triggers of cybersecurity information

[WP-08-03] Cybersecurity event triage

[WP-08-04] Cybersecurity event assessment

[WP-08-05] Vulnerability analysis

[WP-08-06] Evidence of managed vulnerabilities

[WP-08-X1] Apply incident response protocols

[WP-10-03] Documentation of the modeling, design, or programming languages and coding guidelines

[WP-10-06] Integration and verification specification

[WP-12-01] Production control plan

[WP-13-01] Cybersecurity incident response plan

[WP-13-X2] Update plan

[WP-14-01] Procedures to communicate end of cybersecurity support

[WP-14-X1] Decommissioning implications

# 9.1.1 Training [AVCDL-Foundation-1]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Cyber Instructor](#_12.3_Cyber_Instructor)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | I | C | I |

There should be a general security awareness training covering the motivation for cybersecurity and its relationship to safety.

There are five distinct areas of training (as specified in [MSSDL P1](#MS_P1)):

* Secure design
* Threat modeling
* Secure coding
* Security testing
* Privacy

Aside from the awareness training, the other training classes have different target audiences. They may be presented concurrently. Ideally, they should be presented prior to the phase to which they apply. There should be an annual limited-scope refresher for each.

The overall training sequence is covered in the [**Training Path**](#_19._AVCDL_Training) section.

There is also the need to track individual and aggregate training participation.

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | List of programming languages / compilers |
| Risk | **none** |

## AVCDL Products

[AVCDL-Foundation-1.1] [Training Catalog](#ref_training_catalog)

[AVCDL-Foundation-1.2] [System to Track Training Participation](#ref_system_to_track_training_participati)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

[7.2.2.2(a)] cybersecurity management

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.1(b)] production phase CSMS

[7.2.2.1(c)] post-production CSMS

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | AT.2.056, AT.2.057 |
| 3 | **none** |
| 4 | **none** |
| 5 | **none** |

# 9.1.2 Roles and Responsibilities [AVCDL-Foundation-2]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Systems Requirements Planner](#_12.9_Systems_Requirements)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | C | C | - |

**NIST SP 800-181** [***National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework (NCWF)***] provides an exhaustive breakdown of cybersecurity roles and responsibilities. It provides a common, consistent lexicon that categorizes and describes cybersecurity work. We will draw upon these to establish those needed in support of the ***AVCDL***.

**Note:** Additional information on ***NCWF*** can be found on their [site](https://niccs.us-cert.gov/workforce-development/cyber-security-workforce-framework).

**Note:** There will be tasks and abilities called out for roles in NCWF which are not leveraged. Additionally, there will be areas where there is not a 1-to-1 mapping.

**Note:** The role assignments are shown at the top of each requirement page and collected [here](#_10._Requirement_Role_1).

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Foundation-2.1] [Roles and Responsibilities Document](#ref_roles_and_responsibilities)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.1(b)] production phase CSMS

[7.2.2.1(c)] post-production CSMS

## CMMC Applicable Practices

**none**

# 9.1.3 Toolchain Support [AVCDL-Foundation-3]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | R | C | - |

All software used in the product’s development (tools and code [as source or binaries]) must be vetted by development, cybersecurity, and legal to ensure that it is appropriate for use in the development of safety-related systems. A catalog of this software should be created for use by later processes.

The following additional software needs to be in place to support secure development:

* threat modeling
* attack surface analysis
* compile-time security analysis
* static security analysis (including MISRA and SEI CERT)
* open source and third-party software tracking
* security incident tracking

**Note:** Training for each must be provided prior to time of use.

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Component tracking system |
| Development | List of development tools |
| Risk | **none** |

## AVCDL Products

[AVCDL-Foundation-3.1] [List of Approved Tools and Components](#ref_list_of_approved_tools)

## ISO 21434 Required Work Products

[WP-05-04] Evidence of tool management

[WP-10-03] Documentation of the modeling, design, or programming languages and coding guidelines

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(h)] cybersecurity controls tracking

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | CM.2.061, CM.2.064, CM.2.065, CM.2.066, MA.2.112 |
| 3 | AU.3.049, AU.3.052, CM.3.068, MA.3.116, CA.3.162 |
| 4 | CM.4.073 |
| 5 | AU.5.055, CM.5.074, RM.5.152 |

# 9.1.4 Definition of Security Requirements [AVCDL-Foundation-4]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Systems Requirements Planner](#_12.10_Systems_Security)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | I | I | - |

Before designing a secure system, it is necessary to have a clear and coherent set of security requirements.

These are the global security requirements as opposed to the more fine-grained requirements called out during the [requirements phase](#_Requirements_Phase).

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Foundation-4.1] [Global Security Goals](#ref_global_security_goals)

[AVCDL-Foundation-4.2] [Global Security Requirements](#ref_global_security_requirements)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(g)] adaptable monitoring / response

[7.3.4] type risk protection

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | CA.2.157 |
| 3 | **none** |
| 4 | **none** |
| 5 | **none** |

# 9.1.5 Protect the Code [AVCDL-Foundation-5]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | R | - | - |

Processes and controls need to be in place to accomplish the following goals:

* secure code storage
* IP / open source / third party material segregation
* Deterministic builds
* Disaster recovery
* Security audit

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Secure IT infrastructure |
| Development | **none** |
| Risk | **none** |

## AVCDL Products

[AVCDL-Foundation-5.1] [Code Protection Plan](#ref_code_protection_plan)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | AC.1.001, AC.1.002, AC.1.003. AC.1.004, IA.1.076, IA.1.077, PE.1.131, PE.1.133, PE.1.134 |
| 2 | AC.2.007, AC.2.008, AC.2.009, AC.2.010, IA.2.081, IA.2.082 |
| 3 | AC.3.017, AC.3.018, AC.3.019, AC.3.014, AM.3.036, IA.3.083, IA.3.084, IS.3.086 |
| 4 | AM.4.226 |
| 5 | **none** |

# 9.1.6 Ensure Release Integrity [AVCDL-Foundation-6]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | R | C | - |

Steps need to be in place to accomplish the following tasks:

* code signing
* hash tracking
* credential management
* root-of-trust
* secure deployment support

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | * Code signing * Credential management * Deployment infrastructure |
| Development | **none** |
| Risk | **none** |

## AVCDL Products

[AVCDL-Foundation-6.1] [Release Integrity Plan](#ref_release_integrity_plan)

## ISO 21434 Required Work Products

[WP-12-01] Production control plan

## WP.29 CSMS Requirements

[7.2.2.1(b)] production phase CSMS

[7.2.2.2(g)] adaptable monitoring / response

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | AC.1.001, AC.1.002, AC.1.003. AC.1.004, PE.1.131, PE.1.133, PE.1.134 |
| 2 | AC.2.007, AC.2.008, AC.2.009, AC.2.010 |
| 3 | AC.3.017, AC.3.018, AC.3.019, AC.3.014, AM.3.036 |
| 4 | AM.4.226 |
| 5 | **none** |

# 9.1.7 Incident Response Plan [AVCDL-Foundation-7]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Partner Integration Planner](#_12.5_Partner_Integration)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | C | - |

Monitoring sources may include:

* external sources
  + government sources
  + commercial or non-commercial sources
  + researchers
  + organization’s supply chain
  + organization’s customers
* internal sources
  + vulnerability analysis results
  + information from the field (vulnerability scanning reports, repair information, consumer usage information)

The incident response plan should include:

* An identified sustained engineering (SE)
* On-call contacts with decision-making authority 24/7/365
* Security servicing plans for both issues related to internally and externally supplied software

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Triage information required |
| Risk | **none** |

## AVCDL Products

[AVCDL-Foundation-7.1] [Cybersecurity Monitoring Plan](#ref_cybersecurity_monitoring_plan)

[AVCDL-Foundation-7.2] [Incident Response Plan](#ref_incident_response_plan)

## ISO 21434 Required Work Products

[WP-07-01] Sources for cybersecurity monitoring

[WP-07-02] Triage triggers of cybersecurity information

[WP-08-03] Cybersecurity event triage

[WP-08-04] Cybersecurity event assessment

[WP-08-05] Vulnerability analysis

[WP-08-06] Evidence of managed vulnerabilities

[WP-08-X1] Apply incident response protocols

[WP-13-01] Cybersecurity incident response plan

## WP.29 CSMS Requirements

[7.2.2.1(c)] post-production phase CSMS

[7.2.2.2(f)] risk assessment kept current

[7.2.2.2(g)] adaptable monitoring / response

[7.2.2.2(h)] cybersecurity controls tracking

[7.2.2.3] timely risk mitigation

[7.2.2.4(b)] threat extraction from vehicle logs

[7.3.7(b)] vehicle cybersecurity monitoring

[7.3.7(c)] provide forensic capability

[7.4.1] periodic monitoring report

## WP.29 CSMS Supplemental

[7.2.2.1(b)] production phase CSMS

[7.3.2] management of type

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | IR.2.092 |
| 3 | **none** |
| 4 | IR.4.100 |
| 5 | IR.5.106 |

# 9.1.8 Decommissioning Plan [AVCDL-Foundation-8]

Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Partner Integration Planner](#_12.5_Partner_Integration)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | C | C | - |

The decommissioning plan covers the proper handling for any sensitive data embodied in the system. This includes:

* credentials
* certificates
* PII
* logs

It is critical that the decommissioning plan include partner elements within the system.

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Decommissioning / RMA process |
| Development | List of data stored on systems |
| Risk | **none** |

## AVCDL Products

[AVCDL-Foundation-8.1] [Decommissioning Plan](#ref_decommissioning_plan)

## ISO 21434 Required Work Products

[WP-14-01] Procedures to communicate end of cybersecurity support

[WP-14-X1] Decommissioning requirements

## WP.29 CSMS Requirements

[7.2.2.1(c)] post-production CSMS

## WP.29 CSMS Supplemental

**none**

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AM.3.036 |
| 4 | AM.4.226 |
| 5 | **none** |

# 9.1.9 Threat Prioritization Plan [AVCDL-Foundation-9]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Systems Requirements Planner](#_12.10_Systems_Security)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | I | I |

A mechanism for quantifying potential risks and prioritizing their disposition must be established. This may take the form from a gross-level quantization (bug bar) to a formal methodology (TARA).

Since an autonomous vehicle is a safety-critical system, a formal threat quantification system is warranted.

This plan will be applied to take a threat potential (output of the threat modeling process) and yield a prioritized set of threat issues which must be addressed in order to ensure the safe operation of the vehicle.

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Foundation-9.1] [Threat Prioritization Plan](#ref_threat_prioritization_plan)

## ISO 21434 Required Work Products

[WP-08-06] Evidence of managed vulnerabilities

## WP.29 CSMS Requirements

[7.2.2.1(c)] post-production CSMS

[7.2.2.2(f)] risk assessment kept current

[7.2.2.2(g)] adaptable monitoring / response

[7.2.2.3] timely risk mitigation

[7.4.1] periodic monitoring report

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(c)] risk assessment / treatment

[7.3.2] management of type

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | CA.2.159 |
| 3 | RM.3.146 |
| 4 | **none** |
| 5 | **none** |

# 9.1.10 Deployment Plan [AVCDL-Foundation-10]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | R | C | - |

The deployment framework must consider the following:

* secure software deployment
* initial and update scenarios
* deployment failure handling

The deployment plan covers the proper handling for any sensitive data embodied in the system. This includes:

* credentials
* certificates
* PII
* logs

## Training Provided

**none**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Deployment infrastructure / process |
| Development | List of material to be deployed |
| Risk | **none** |

## AVCDL Products

[AVCDL-Foundation-10.1] [Deployment Plan](#ref_deployment_plan)

## ISO 21434 Required Work Products

[WP-12-01] Production control plan

[WP-13-X2] Update plan

## WP.29 CSMS Requirements

[7.2.2.1(b)] production phase CSMS

[7.2.2.1(c)] post-production phase CSMS

[7.2.2.2(g)] adaptable monitoring / response

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AM.3.036 |
| 4 | AM.4.226 |
| 5 | **none** |

# 9.2 Requirements Phase

Predecessor: [Foundation Phase](#_Foundation_Phase_1) or [Operation Phase](#_Operation_Phase)

Successor: [Design Phase](#_Design_Phase)

The requirements phase of development is a reiteration of [**AVCDL-Foundation-4**](#_Definition_of_Security) **Definition of Security Requirements** but with higher resolution. In an Agile-based development process, this is to be expected.

## [[AVCDL-Requirements-1] Security Requirements](#_Security_Requirements_Definition) Definition ([SSDF PO.4](#PO_4) / [MSSDL P2](#MS_P2))

The requirements are created with consideration of the global security requirements. They provide constraints specific to the work under consideration.

## [[AVCDL-Requirements-2] Requirements Gate](#_Requirements_Gate_[AVCDL-Requiremen) ([MSSDL P3](#MS_P3))

Requirements phase exit is conditional (formally gated) on completion of all AVCDL phase requirements and work products for this phase.

Requirements phase product dependencies are visualized in Figure 9.

## ISO 21434 Required Work Products

[WP-09-01] Item definition

[WP-10-02] Cybersecurity requirements for post-development

# 9.2.1 Security Requirements Definition [AVCDL-Requirements-1]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Security Architect](#_12.7_Security_Architect)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | I | - |

Requirements need to both consider the global security requirements and add constraints necessary to the specifics of the work under consideration. As with the global-level requirements called out in [AVCDL-Foundation-4](#_Definition_of_Security), these requirements should be derived using the [**security requirements taxonomy**](#ref_security_requirements_taxonomy) in order to expose gaps up-front (prior to threat modeling, attack surface analysis, ...).

Requirements should be traceable through the product operation phase to allow for improvement should deficiencies be discovered.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Foundation-4]](#_Definition_of_Security) Definition of Security Requirements

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | High-level design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Requirements-1.1] [Product-level Security Goals](#ref_product_level_security_goals)

[AVCDL-Requirements-1.2] [Product-level Security Requirements](#ref_product_level_security_requirements)

## ISO 21434 Required Work Products

[WP-09-01] Item definition

[WP-10-02] Cybersecurity requirements for post-development

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

## WP.29 CSMS Supplemental

[7.3.4] type risk protection

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | CA.2.157 |
| 3 | SC.3.177, SC.3.181, SC.3.183, SC.3.185, SC.3.186, SC.3.187, SC.3.190, SC.3.191 |
| 4 | **none** |
| 5 | **none** |

# 9.2.2 Requirements Gate [AVCDL-Requirements-2]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Secure Software Assessor](#_12.6_Secure_Software)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | - |

Requirements phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase. The security advisor assigned to the release must certify that the project team has satisfied security requirements for this phase.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Requirements-1]](#_Security_Requirements_Definition) Security Requirements Definition

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Requirements-2.1] [Requirements](#ref_requirements_phase_gate) Phase Gate

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.3.6] sufficient testing

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.3 Design Phase

Predecessor: [Requirements Phase](#_Requirements_Phase)

Successor: [Implementation Phase](#_Implementation_Phase)

The changes to the design phase include the incorporation of security requirements and analysis of the design from a security perspective.

## [[AVCDL-Design-1] Apply Security Requirements and Risk Information to Design](#_Apply_Security_Requirements) ([SSDF PW.1](#PW_1) / [MSSDL P4](#MS_P4), [MSSDL P5](#MS_P5))

The design should take into consideration established security requirements and risk information.

## [[AVCDL-Design-2] Security Design Review](#_Security_Design_Review) ([SSDF PW.2](#PW_2))

Help ensure the software will meet the security requirements and satisfactorily address the identified risk information.

## [[AVCDL-Design-3] Attack Surface Reduction](#_Attack_Surface_Reduction) ([MSSDL P6](#MS_P6))

Attack surface analysis guides the disabling or access restricting of system services. It applies the principles of least privilege and layered defense.

## [[AVCDL-Design-4] Threat Modeling](#_Threat_Modeling_[AVCDL-Design-4]) ([MSSDL P7](#MS_P7))

Threat modeling realizes an abstraction of the system as a set of interacting processes managing resources passing data between them. It is on these data flows that automated threat modeling tools reason.

## [[AVCDL-Design-5] Design Gate](#_Design_Gate_[AVCDL-Design-5]) ([MSSDL P3](#MS_P3))

Design phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase.

Design phase product dependencies are visualized in Figure 10.

## ISO 21434 Required Work Products

[WP-06-03] Cybersecurity assessment report

[WP-09-02] Threat analysis and risk assessment

[WP-09-03] Cybersecurity goals

[WP-09-04] Cybersecurity claims

[WP-09-05] Verification report

[WP-09-06] Cybersecurity concept

[WP-09-07] Verification report of cybersecurity concept

[WP-15-01] Damage scenarios

[WP-15-02] Identified assets and cybersecurity properties

[WP-15-03] Threat scenarios

[WP-15-04] Impact rating

[WP-15-05] Attack paths

[WP-15-06] Attack feasibility rating

[WP-15-07] Risk value

[WP-15-08] Risk treatment decision per threat scenario

# 9.3.1 Apply Security Requirements and Risk Information to Design [AVCDL-Design-1]

## Owner

**Group:** [Development](#_11.2_Groups_[development])

**NCWF Role:** [Software Developer](#_12.8_Software_Developer)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | - |

Determine which security requirements the software’s design should meet and determine what security risks the software is likely to face during production operation and how those risks should be mitigated by the software’s design. Addressing security requirements and risks during software design instead of later helps to make software development more efficient.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Requirements-2]](#_Requirements_Gate_[AVCDL-Requiremen) Requirements Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Detailed functional requirements |
| Risk | **none** |

## AVCDL Products

[AVCDL-Design-1.1] [Design Showing Security Considerations](#ref_design_showing_security_consideratio)

## ISO 21434 Required Work Products

[WP-09-06] Cybersecurity concept

[WP-10-01] Refined cybersecurity specification

[WP-15-02] Identified assets and cybersecurity properties

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(b)] risk identification

[7.3.3] critical element risk assessment

[7.3.4] type risk protection

## WP.29 CSMS Supplemental

[7.3.8] use standard crypto modules

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052, SC.3.180 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.3.2 Security Design Review [AVCDL-Design-2]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Systems Requirements Planner](#_12.10_Systems_Security)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | C |

Help ensure the software will meet the security requirements and satisfactorily address the identified risk information.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-1]](#_Apply_Security_Requirements) Apply Security Requirements and Risk Information to Design

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Element detailed design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Design-2.1] [Security Design Review Report](#ref_security_design_review_report)

## ISO 21434 Required Work Products

[WP-06-03] Cybersecurity assessment report

[WP-09-07] Verification report of cybersecurity concept

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(d)] verification of risk management

## WP.29 CSMS Supplemental

[7.2.2.2(e)] cybersecurity testing

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055, SC.5.230 |

# 9.3.3 Attack Surface Reduction [AVCDL-Design-3]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Security Architect](#_12.7_Security_Architect)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | - |

Attack surface reduction encompasses shutting off or restricting access to system services, applying the principle of least privilege, and employing layered defenses wherever possible. It is primarily used when dealing with externally supplied elements where access to the design is not provided.

**Note:** Attack surface analysis is a methodology which trails in maturity when compared with threat modeling. Automated measures in this area will be limited.

**Note:** The attack surface analysis **AVCDL** work products are generated through application of the threat prioritization plan set out in [[AVCDL-Foundation-9]](#_Threat_Prioritization_Plan) **Threat Prioritization Plan**.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-1]](#_Apply_Security_Requirements) Apply Security Requirements and Risk Information to Design

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Functional OS interface design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Design-3.1] [Attack Surface Analysis Report](#ref_attack_surface_analysis_report)

[AVCDL-Design-4.2] [Ranked / Risked Threat Report](#ref_ranked_risked_threat_report)

[AVCDL-Design-4.3] [Threat Report](#ref_threat_report)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(b)] risk identification

[7.2.2.2(c)] risk assessment / treatment

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | RM.2.143 |
| 3 | AU.3.049, AU.3.052, RM.3.144 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.3.4 Threat Modeling [AVCDL-Design-4]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Security Architect](#_12.7_Security_Architect)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | R |

Threat modeling is an exercise which may be done at any stage of development. It realizes an abstraction of the system as a set of interacting processes managing resources passing data between them. It is on these data flows that automated threat modeling tools reason.

In that same way that security requirements should be considered at multiple levels in order to provide a complete landscape, so to do threat models.

**Note:** Threat modeling is a team exercise, encompassing program/project managers, developers, and testers, and represents the primary security analysis task performed during the software design stage.

**Note:** The threat modeling **AVCDL** work products are generated through application of the threat prioritization plan set out in [[AVCDL-Foundation-9]](#_Threat_Prioritization_Plan) **Threat Prioritization Plan**.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Foundation-9]](#_Threat_Prioritization_Plan) Threat Prioritization Plan

[[AVCDL-Design-1]](#_Apply_Security_Requirements) Apply Security Requirements and Risk Information to Design

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Element detailed design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Design-4.1] [Threat Modeling Report](#ref_threat_modeling_report)

[AVCDL-Design-4.2] [Ranked / Risked Threat Report](#ref_ranked_risked_threat_report)

[AVCDL-Design-4.3] [Threat Report](#ref_threat_report)

## ISO 21434 Required Work Products

[WP-09-02] Threat analysis and risk assessment

[WP-09-03] Cybersecurity goals

[WP-09-04] Cybersecurity claims

[WP-09-05] Verification report

[WP-15-01] Damage scenarios

[WP-15-03] Threat scenarios

[WP-15-04] Impact rating

[WP-15-05] Attack paths

[WP-15-06] Attack feasibility rating

[WP-15-07] Risk values

[WP-15-08] Risk treatment decision per threat scenario

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.1(c)] post-production phase CSMS

[7.2.2.2(b)] risk identification

[7.2.2.2(c)] risk treatment

[7.2.2.2(d)] verification of risk management

[7.2.2.2(f)] risk assessment kept current

[7.2.2.2.(g)] adaptable monitoring / response

[7.2.2.3] timely risk management

[7.3.3] critical element risk assessment

[7.3.4] type risk protection

[7.3.5] type risk countermeasures

[7.4.1] periodic monitoring report

## WP.29 CSMS Supplemental

[7.2.2.1(b)] production phase CSMS

[7.3.2] management of type

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | RM.2.143 |
| 3 | AU.3.049, AU.3.052, RM.3.144 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.3.5 Design Gate [AVCDL-Design-5]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Secure Software Assessor](#_12.6_Secure_Software)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | R |

Design phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase. The security advisor assigned to the release must certify that the project team has satisfied security requirements for this phase.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Design-2]](#_Security_Design_Review) Security Design Review

[[AVCDL-Design-3]](#_Attack_Surface_Reduction) Attack Surface Reduction

[[AVCDL-Deisgn-4]](#_Threat_Modeling_[AVCDL-Design-4]) Threat Modeling

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | **none** |
| Risk | **none** |

## AVCDL Products

[AVCDL-Design-5.1] [Design](#ref_design_phase_gate) Phase Gate

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.3.6] sufficient testing

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.4 Implementation Phase

Predecessor: [Design Phase](#_Design_Phase)

Successor: [Verification Phase](#_9.5_Verification_Phase_1)

The implementation phase of development is based on **MSSDL Implementation Phase** (MSSDL P8-10) and **SSDF Prepare Well-Secured Software** (PW.4-7, 9).

## [[AVCDL-Implementation-1] Use Approved Tools](#_Use_Approved_Tools) ([MSSDL P8](#MS_P8))

Development teams should strive to use the latest version of approved tools to take advantage of new security analysis functionality and protections.

## [[AVCDL-Implementation-2] Configure Build Process to Improve Security](#_Configure_Build_Process) ([SSDF PW.6](#PW_6))

Decrease the number of security vulnerabilities in the software and reduce costs by eliminating vulnerabilities before testing occurs.

## [[AVCDL-Implementation-3] Use Secure Settings by Default](#_Use_Secure_Settings) ([SSDF PW.9](#PW_9))

Help improve the security of the software at installation time, which reduces the likelihood of the software being deployed with weak security settings that would put it at greater risk of compromise.

## [[AVCDL-Implementation-4] Reuse Well-Secured Software](#_Reuse_Well-Secured_Software) ([SSDF PW.4](#PW_4))

Reuse of well-secured (verified) software lowers the costs of development, expedites development, and decreases the likelihood of introducing additional security vulnerabilities.

## [[AVCDL-Implementation-5] Code Securely](#_Code_Securely_[AVCDL-Implementation) ([SSDF PW.5](#PW_5))

Decrease the number of security vulnerabilities in the software and reduce costs by eliminating vulnerabilities during source code creation.

## [[AVCDL-Implementation-6] Deprecate Unsafe Functions](#_Deprecate_Unsafe_Functions) ([MSSDL P9](#MS_P9))

Project teams should analyze all functions and APIs that will be used in conjunction with a software development project and prohibit those that are determined to be unsafe.

## [[AVCDL-Implementation-7] Static Analysis](#_Static_Analysis_[AVCDL-Implementati) ([MSSDL P10](#MS_P10))

Project teams should perform static analysis of source code.

## [[AVCDL-Implementation-8] Dynamic Program Analysis](#_Dynamic_Program_Analysis) ([MSSDL P11](#MS_P11))

Run-time verification of software programs is necessary to ensure that a program’s functionality works as designed.

## [[AVCDL-Implementation-9] Security Code Review](#_Security_Code_Review) ([SSDF PW.7](#PW_7))

The security team and security advisors should augment static analysis with other automated or human review as appropriate.

## [[AVCDL-Implementation-10](#_Implementation_Gate_[AVCDL-Implemen)] Fuzz Testing ([MSSDL P12](#MS_P12))

Fuzz testing is a specialized form of dynamic analysis used to induce program failure by deliberately introducing malformed or random data to an application.

## [[AVCDL-Implementation-11](#_9.4.11_Implementation_Gate_1)] Implementation Gate ([MSSDL P3](#MS_P3))

Implementation phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase.

Implementation phase product dependencies are visualized in Figure 11.

## ISO 21434 Required Work Products

[WP-10-07] Integration and verification reports

# 9.4.1 Use Approved Tools [AVCDL-Implementation-1]

## Owner

**Group:** [Development](#_11.2_Groups_[development])

**NCWF Role:** [Software Developer](#_12.8_Systems_Requirements)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | C | R | - |

Development teams should strive to use the latest version of **approved** tools and components to take advantage of new security analysis functionality and protections. Unapproved tools and components should never be used. The build system should verify that the tools and components currently being used have been approved for use in the creation of this product.

**Note:** The list of approved tools and components, and their associated security checks, such as compiler and linker options, and warnings were created in the [foundation phase](#_Foundation_Phase_1).

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Foundation-3]](#_Toolchain_Support_[AVCDL-Foundation) Toolchain Support

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Component tracking comparison system |
| Development | **none** |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-1.1] [List of Tools and Components Used](#ref_list_of_tools_used)

## ISO 21434 Required Work Products

[WP-05-05] Evidence of tool management

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(h)] cybersecurity controls tracking

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.4.2 Configure Build Process to Improve Security [AVCDL-Implementation-2]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | R | C | - |

Decrease the number of security vulnerabilities in the software and reduce costs by eliminating vulnerabilities before testing occurs.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Build system |
| Development | List of adopted secure build settings |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-2.1] [Build Process Documentation](#ref_build_process_documentation)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(h)] cybersecurity controls tracking

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | CM.2.061, CM.2.064, CM.2.065, CM.2.066 |
| 3 | CM.3.068 |
| 4 | CM.4.073 |
| 5 | CM.5.074 |

# 9.4.3 Use Secure Settings by Default [AVCDL-Implementation-3]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Security Architect](#_12.7_Security_Architect)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | - |

Helps improve the security of the software at installation time, which reduces the likelihood of the software being deployed with weak security settings that would put it at greater risk of compromise.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Element detailed design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-3.1] [Secure Settings Document](#ref_secure_settings_document)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | CM.2.061, CM.2.064, CM.2.065, CM.2.066 |
| 3 | CM.3.068 |
| 4 | CM.4.073 |
| 5 | CM.5.074 |

# 9.4.4 Reuse Well-Secured Software [AVCDL-Implementation-4]

## Owner

**Group:** [Development](#_11.2_Groups_[development])

**NCWF Role:** [Software Developer](#_12.8_Systems_Requirements)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | I | R | - |

Lower the costs of software development, expedite software development, and decrease the likelihood of introducing additional security vulnerabilities into the software. These are particularly true for software that implements security functionality, such as cryptographic modules and protocols.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | List of libraries used |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-4.1] [Component / Version - Product / Version Cross-reference Document](#ref_component_version_product_version)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.1(b)] production phase CSMS

[7.2.2.2(h)] cybersecurity controls tracking

## CMMC Applicable Practices

**none**

# 9.4.5 Code Securely [AVCDL-Implementation-5]

## Owner

**Group:** [Development](#_11.2_Groups_[development])

**NCWF Role:** [Software Developer](#_12.8_Systems_Requirements)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | - | R | - |

Decrease the number of security vulnerabilities in the software and reduce costs by eliminating vulnerabilities during source code creation.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Element implementation |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-5.1] [Secure Development](#ref_fulfillment_of_associated_security_r)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.3.4] type risk protection

[7.3.8] use standard crypto modules

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | SC.2.179 |
| 3 | MP.3.125, SC.3.177, SC.3.181, SC.3.183, SC.3.185, SC.3.186, SC.3.187, SC.3.190, SC.3.191 |
| 4 | SC.4.197 |
| 5 | **none** |

# 9.4.6 Deprecate Unsafe Functions [AVCDL-Implementation-6]

## Owner

**Group:** [Development](#_11.2_Groups_[development])

**NCWF Role:** [Software Developer](#_12.8_Systems_Requirements)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | - | R | - |

Many commonly used functions and APIs are not secure in the face of the current threat environment. Project teams should analyze all functions and APIs that will be used in conjunction with a software development project and prohibit those that are determined to be unsafe.

**Note:** The list of unsafe functions should have been created in the [foundation phase](#_Foundation_Phase_1).

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | List of deprecated functions in use |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-6.1] [Currently Used Deprecated Functions Document](#ref_currently_used_deprecated_functions_)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(h)] cybersecurity controls tracking

## CMMC Applicable Practices

**none**

# 9.4.7 Static Analysis [AVCDL-Implementation-7]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | R | C | - |

Project teams should perform static analysis of source code.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | * Static analysis infrastructure * Static analysis settings tracking |
| Development | List of adopted security-related settings |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-7.1] [Static Analysis Report](#ref_static_analysis_report)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] cybersecurity testing

## CMMC Applicable Practices

**none**

# 9.4.8 Dynamic Program Analysis [AVCDL-Implementation-8]

## Owner

**Group:** [Development](#_11.2_Groups_[development])

**NCWF Role:** [Software Developer](#_12.8_Systems_Requirements)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | - | R | - |

Run-time verification of software programs is necessary to ensure that a program’s functionality works as designed. This verification task should specify tools that monitor application behavior for memory corruption, user privilege issues, and other critical security problems.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Dynamic analysis testing infrastructure |
| Development | List of adopted security-related tools |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-8.1] [Dynamic Analysis Report](#ref_dynamic_analysis_report)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] cybersecurity testing

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | **none** |
| 4 | **none** |
| 5 | SI.5.222 |

# 9.4.9 Security Code Review [AVCDL-Implementation-9]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Secure Software Assessor](#_12.6_Secure_Software)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | C | - |

Static code analysis by itself is generally insufficient to replace a manual code review. The security team and security advisors should be aware of the strengths and weaknesses of static analysis tools and be prepared to augment static analysis tools with other tools or human review as appropriate.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Code review infrastructure |
| Development | Element implementation |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-9.1] [Secure Code Review Summary](#ref_secure_code_review_summary)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] cybersecurity testing

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052, CA.3.162 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.4.10 Fuzz Testing [AVCDL-Implementation-10]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Vulnerability Assessment Analyst](#_12.11_Vulnerability_Assessment)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | C | C | - |

Fuzz testing is a specialized form of dynamic analysis used to induce program failure by deliberately introducing malformed or random data to an application. The fuzz testing strategy is derived from the intended use of the application and the functional and design specifications for the application.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Design-5]](#_Design_Gate_[AVCDL-Design-5]) Design Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Fuzz testing process infrastructure |
| Development | Element implementation |
| Risk | **none** |

## AVCDL Products

[AVCDL-Implementation-10.1] [Fuzz Testing Report](#ref_fuzz_testing_report)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] cybersecurity testing

## CMMC Applicable Practices

**none**

# 9.4.11 Implementation Gate [AVCDL-Implementation-11]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Secure Software Assessor](#_12.6_Secure_Software)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | R | R | - |

Implementation phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase. The security advisor assigned to the release must certify that the project team has satisfied security requirements for this phase.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Implementation-1]](#_Use_Approved_Tools) Use Approved Tools

[[AVCDL-Implementation-2]](#_Configure_Build_Process) Configure Build Process to Improve Security

[[AVCDL-Implementation-3]](#_Use_Secure_Settings) Use Secure Settings by Default

[[AVCDL-Implementation-4]](#_Reuse_Well-Secured_Software) Reuse Well-Secured Software

[[AVCDL-Implementation-5]](#_Code_Securely_[AVCDL-Implementation) Code Securely

[[AVCDL-Implementation-6]](#_Deprecate_Unsafe_Functions) Deprecate Unsafe Functions

[[AVCDL-Implementation-7]](#_Static_Analysis_[AVCDL-Implementati) Static Analysis

[[AVCDL-Implementation-8]](#_Decommissioning_Plan_[AVCDL-Foundat) Dynamic Program Analysis

[[AVCDL-Implementation-9]](#_Threat_Prioritization_Plan) Security Code Review

[[AVCDL-Implementation-10]](#_Implementation_Gate_[AVCDL-Implemen) Fuzz Testing

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Implementation-11.1] [Implementation](#ref_implementation_phase_gate) Phase Gate

## ISO 21434 Required Work Products

[WP-10-07] Integration and verification reports

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] cybersecurity testing

[7.3.6] sufficient testing

## WP.29 CSMS Supplemental

**none**

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.5 Verification Phase

Predecessor: [Implementation Phase](#_Implementation_Phase)

Successor: [Release Phase](#_Release_Phase)

The verification phase of development is based on **MSSDL Verification Phase** (MSSDL P11-3) and **SSDF Produce Well-Secured Software** (SSDF PW.8).

## [[AVCDL-Verification-1] Penetration Testing](#_Penetration_Testing_[AVCDL-Verifica) ([SSDF PW.8](#PW_8))

Penetration testing identifies vulnerabilities before software is released so they can be corrected before release, which prevents exploitation.

## [[AVCDL-Verification-2] Threat Model Review](#_9.5.3_Threat_Model_1) ([MSSDL P13](#MS_P13))

The threat models should be reviewed to ensures that any design or implementation changes to the system have been accounted for, and that any new attack vectors created as a result of the changes have been reviewed and mitigated.

## [[AVCDL-Verification-3] Attack Surface Analysis Review](#_Attack_Surface_Analysis) ([MSSDL P13](#MS_P13))

The attack surface analysis should be reviewed to ensures that any design or implementation changes to the system have been accounted for, and that any new attack vectors created as a result of the changes have been reviewed and mitigated.

## [[AVCDL-Verification-4] Verification Gate](#_Verification_Gate_[AVCDL-Verificati) ([MSSDL P3](#MS_P3))

Verification phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase.

Verification phase product dependencies are visualized in Figure 12.

## ISO 21434 Required Work Products

[WP-10-04] Verification report for the refined cybersecurity specification

[WP-10-05] Vulnerability analysis report

[WP-10-07] Integration and verification reports

[WP-11-01] Validation report

# 9.5.1 Penetration Testing [AVCDL-Verification-1]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Vulnerability Assessment Analyst](#_12.11_Vulnerability_Assessment)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | C | C | - |

Help identify vulnerabilities before software is released so they can be corrected before release, which prevents exploitation. Using automated methods lowers the effort and resources needed to detect vulnerabilities. Executable code is binaries, directly executed bytecode, directly executed source code, and any other form of code an organization deems as executable.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Implementation-11]](#_9.4.11_Implementation_Gate_1) Implementation Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | Penetration testing process infrastructure |
| Development | Operational system |
| Risk | **none** |

## AVCDL Products

[AVCDL-Verification-1.1] [Penetration Testing Report](#ref_penetration_testing_report)

[AVCDL-Design-4.2] [Ranked / Risked Threat Report](#ref_ranked_risked_threat_report)

[AVCDL-Design-4.3] [Threat Report](#ref_threat_report)

## ISO 21434 Required Work Products

[WP-10-06] Integration and Verification Specification

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] sufficient testing

## WP.29 CSMS Supplemental

**none**

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | **none** |
| 4 | CA.4.164, CA.4.227 |
| 5 | **none** |

# 9.5.2 Threat Model Review [AVCDL-Verification-2]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Security Architect](#_12.7_Security_Architect)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | R |

The threat models should be reviewed to ensure that any design or implementation changes to the system have been accounted for, and that any new attack vectors created as a result of the changes have been reviewed and mitigated.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Design-4]](#_Threat_Modeling_[AVCDL-Design-4]) Threat Modeling

[[AVCDL-Implementation-11]](#_9.4.11_Implementation_Gate_1) Implementation Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Updated element detailed design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Verification-2.1] [Updated Threat Model](#ref_updated_threat_model)

## ISO 21434 Required Work Products

[WP-10-04] Verification report for the refined cybersecurity specification

[WP-10-05] Vulnerability analysis report

[WP-10-06] Integration and Verification Specification

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] cybersecurity testing

## WP.29 CSMS Supplemental

[7.2.2.2(d)] verification of risk management

[7.2.2.2(f)] risk assessment kept current

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | RM.2.143 |
| 3 | RM.3.144 |
| 4 | **none** |
| 5 | **none** |

# 9.5.3 Attack Surface Analysis Review [AVCDL-Verification-3]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Security Architect](#_12.7_Security_Architect)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | - |

The attack surface analysis should be reviewed to ensure that any design or implementation changes to the system have been accounted for, and that any new attack vectors created as a result of the changes have been reviewed and mitigated.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Design-3]](#_Attack_Surface_Reduction) Attack Surface Reduction

[[AVCDL-Implementation-11]](#_9.4.11_Implementation_Gate_1) Implementation Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Updated functional OS interface design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Verification-3.1] [Updated Attack Surface Analysis](#ref_updated_attack_surface_analysis)

## ISO 21434 Required Work Products

[WP-10-04] Verification report for the refined cybersecurity specification

[WP-10-05] Vulnerability analysis report

[WP-10-06] Integration and Verification Specification

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(e)] cybersecurity testing

## WP.29 CSMS Supplemental

[7.2.2.2(d)] verification of risk management

[7.2.2.2(f)] risk assessment kept current

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | RM.2.143 |
| 3 | RM.3.144 |
| 4 | **none** |
| 5 | **none** |

# 9.5.4 Verification Gate [AVCDL-Verification-4]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Secure Software Assessor](#_12.6_Secure_Software)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | R | R |

Verification phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase. The security advisor assigned to the release must certify that the project team has satisfied security requirements for this phase.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Verification-1]](#_Fuzz_Testing_[AVCDL-Verification-1]) Penetration Testing

[[AVCDL-Verification-2]](#_9.5.3_Threat_Model_1) Threat Model Review

[[AVCDL-Verification-3]](#_Attack_Surface_Analysis) Attack Surface Analysis Review

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Updated element detailed design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Verification-4.1] [Verification](#ref_verification_phase_gate) Phase Gate

## ISO 21434 Required Work Products

[WP-10-07] Integration and verification reports

[WP-11-01] Validation report

## WP.29 CSMS Requirements

[7.2.2.1(a)] development phase CSMS

[7.2.2.2(d)] verification of risk management

[7.2.2.2(e)] cybersecurity testing

[7.3.6] sufficient testing

## WP.29 CSMS Supplemental

**none**

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.6 Release Phase

Predecessor: [Verification Phase](#_9.5_Verification_Phase_1)

Successor: [Operation Phase](#_Operation_Phase)

The release phase of development is based on **MSSDL Release Phase** (MSSDL P14-6).

## [[AVCDL-Release-1] Final Security Review](#_Final_Security_Review) ([MSSDL P15](#MS_P15))

The Final Security Review (FSR) is a deliberate examination of all the security activities performed on a software application prior to release.

## [[AVCDL-Release-2] Archive](#_Archive_[AVCDL-Release-2]) ([MSSDL P16](#MS_P16))

All pertinent information and data must be archived to allow for post-release servicing of the software.

## [[AVCDL-Release-3] Release Gate](#_9.6.3_Release_Gate_1) ([MSSDL P16](#MS_P16))

Release phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase.

Release phase product dependencies are visualized in Figure 13.

## ISO 21434 Required Work Products

[WP-06-04] Release for post-development report

# 9.6.1 Final Security Review [AVCDL-Release-1]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Secure Software Assessor](#_12.6_Secure_Software)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | C | C | C |

This is a deliberate examination of all the security activities performed on a software application prior to release. The FSR is performed by the security advisor with assistance from the regular development staff and the security and privacy team leads. The FSR is not a “penetrate and patch” exercise, nor is it a chance to perform security activities that were previously ignored or forgotten.

The FSR usually includes an examination of:

* threat models
* exception requests
* tool output
* performance reports

These are compared against the previously determined quality gates or bug bars. Regressions discovered at this stage indicate a failure in the verification phase.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Verification-4]](#_Verification_Gate_[AVCDL-Verificati) Verification Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Final design documentation |
| Risk | **none** |

## AVCDL Products

[AVCDL-Release-1.1] [Final Security Review Report](#ref_final_security_review_report)

## ISO 21434 Required Work Products

[WP-06-04] Release for post-development report

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | RM.2.143 |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.6.2 Archive [AVCDL-Release-2]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| - | R | C | - |

Everything necessary to reproduce and maintain the product must be archived.

This includes:

* specifications
* source code
* binaries
* private symbols
* threat models
* documentation
* emergency response plans
* license and servicing terms for any third-party software
* other data necessary to perform post-release servicing tasks

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Release-1]](#_Final_Security_Review) Final Security Review

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | * Artifact storage infrastructure * Artifact tracking system |
| Development | Final materials for deployment |
| Risk | **none** |

## AVCDL Products

[AVCDL-Release-2.1] [Archive Manifest](#ref_archive_manifest)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | PE.1.131, PE.1.133, PE.1.134 |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055, RE.5.140 |

# 9.6.3 Release Gate [AVCDL-Release-3]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Secure Software Assessor](#_12.6_Secure_Software)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | R | R | R |

Release phase exit is conditional (formally gated) on completion of all **AVCDL** phase requirements and work products for this phase. The security advisor assigned to the release must certify that the project team has satisfied security requirements.

## Training Provided

**none**

## Phase Requirement Dependencies

[[AVCDL-Release-2]](#_Archive_[AVCDL-Release-2]) Archive

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Release-3.1] [Release](#ref_release_phase_gate) Phase Gate

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

**none**

## WP.29 CSMS Supplemental

[7.2.2.1(a)] development phase CSMS

[7.3.6] sufficient testing

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | **none** |
| 2 | **none** |
| 3 | AU.3.049, AU.3.052 |
| 4 | **none** |
| 5 | AU.5.055 |

# 9.7 Operation Phase

Predecessor: [Release Phase](#_Release_Phase)

Successor: [Requirements Phase](#_Requirements_Phase) or [Decommissioning Phase](#_Decommissioning_Phase)

The operation phase is based on **SSDF Vulnerability Report Practices** (SSDF RV).

## [[AVCDL-Operation-1] Identify and Confirm Vulnerabilities](#_Identify_and_Confirm) ([SSDF RV.1](#RV_1))

Help ensure vulnerabilities are identified more quickly so they can be remediated more quickly, reducing the window of opportunity for attackers.

## [[AVCDL-Operation-2] Assess and Prioritize the Remediation](#_Assess_and_Prioritize) ([SSDF RV.2](#RV_2))

Help ensure vulnerabilities are remediated as quickly as necessary, reducing the window of opportunity for attackers.

## [[AVCDL-Operation-3] Root Cause](#_9.7.3_Root_Cause_1) Vulnerabilities ([SSDF RV.3](#RV_3))

Help reduce the frequency of vulnerabilities in the future.

## [[AVCDL-Operation-4] Secure Deployment](#_Secure_Deployment_[AVCDL-Operation-)

Software must be deployed in a secure manner.

Operation phase product dependencies are visualized in Figure 14.

## ISO 21434 Required Work Products

[WP-08-03] Cybersecurity event triage

[WP-08-04] Cybersecurity event assessment

[WP-08-05] Vulnerability analysis

[WP-08-06] Evidence of managed vulnerability

[WP-08-X1] Apply incident response protocols

[WP-12-X1] Production control plan implementation

[WP-13-X1] Cybersecurity incident response plan implementation

# 9.7.1 Identify and Confirm Vulnerabilities [AVCDL-Operation-1]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Cyber Defense Incident Responder](#_12.2_Cyber_Defense)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | C | - |

Help ensure vulnerabilities are identified more quickly so they can be remediated more quickly, reducing the window of opportunity for attackers.

**Note:** The incident response report **AVCDL** work product is generated through application of the threat prioritization plan set out in [[AVCDL-Foundation-9]](#_Threat_Prioritization_Plan) **Threat Prioritization Plan**.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Foundation-7]](#_Incident_Response_Plan) Incident Response Plan

[[AVCDL-Release-3]](#_9.6.3_Release_Gate_1) Release Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Element detailed design |
| Risk | **none** |

## AVCDL Products

[AVCDL-Operation-1.1] [Cybersecurity Incident Report](#ref_cybersecurity_incident_report)

## ISO 21434 Required Work Products

[WP-08-03] Cybersecurity event triage

[WP-08-04] Cybersecurity event assessment

[WP-08-06] Evidence of managed vulnerabilities

[WP-08-X1] Apply incident response protocols

[WP-13-X1] Cybersecurity incident response plan implementation

## WP.29 CSMS Requirements

[7.2.2.1(c)] post-production phase CSMS

[7.2.2.2(f)] risk assessment kept current

[7.2.2.2(g)] adaptable monitoring / response

[7.2.2.2(h)] cybersecurity controls tracking

[7.2.2.3] timely risk mitigation

[7.2.2.4(b)] threat extraction from vehicle logs

[7.4.1] periodic monitoring report

## WP.29 CSMS Supplemental

[7.2.2.1(b)] production phase CSMS

[7.3.2] management of type

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | SI.1.210 |
| 2 | IR.2.093, IR.2.096 |
| 3 | IR.3.098, SA.3.169 |
| 4 | RM4.149, RM.4.150, SA.4.171, SA.4.173, SI.4.221 |
| 5 | IR.5.102 |

# 9.7.2 Assess and Prioritize Remediation [AVCDL-Operation-2]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Cyber Defense Forensics Analyst](#_12.1_Cyber_Defense)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | C | C |

Help ensure vulnerabilities are remediated as quickly as necessary, reducing the window of opportunity for attackers.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Foundation-7]](#_Incident_Response_Plan) Incident Response Plan

[[AVCDL-Release-3]](#_9.6.3_Release_Gate_1) Release Gate

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Operation-1.1] [Cybersecurity Incident Report](#ref_cybersecurity_incident_report)

## ISO 21434 Required Work Products

[WP-08-05] Vulnerability analysis

[WP-08-06] Evidence of managed vulnerabilities

[WP-08-X1] Apply incident response protocols

[WP-13-X1] Cybersecurity incident response plan implementation

## WP.29 CSMS Requirements

[7.2.2.1(c)] post-production CSMS

[7.2.2.2(f)] risk assessment kept current

[7.2.2.2(g)] adaptable monitoring / response

[7.2.2.3] timely risk mitigation

[7.3.7(c)] provide forensic capability

[7.4.1] periodic monitoring report

## WP.29 CSMS Supplemental

[7.2.2.1(b)] production phase CSMS

[7.2.2.2(h)] cybersecurity controls tracking

[7.3.2] management of type

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | SI.1.210 |
| 2 | IR.2.094, RM.2.143 |
| 3 | **none** |
| 4 | **none** |
| 5 | **none** |

# 9.7.3 Root Cause Vulnerabilities [AVCDL-Operation-3]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Cyber Defense Forensics Analyst](#_12.1_Cyber_Defense)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | C | - |

Help reduce the frequency of vulnerabilities in the future.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Foundation-7]](#_Incident_Response_Plan) Incident Response Plan

[[AVCDL-Release-3]](#_9.6.3_Release_Gate_1) Release Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | Element implementation |
| Risk | **none** |

## AVCDL Products

[AVCDL-Operation-1.1] [Cybersecurity Incident Report](#ref_cybersecurity_incident_report)

## ISO 21434 Required Work Products

[WP-08-05] Vulnerability analysis

[WP-08-06] Evidence of managed vulnerabilities

[WP-08-X1] Apply incident response protocols

[WP-13-X1] Cybersecurity incident response plan implementation

## WP.29 CSMS Requirements

[7.2.2.1(c)] post-production CSMS

[7.2.2.2(f)] risk assessment kept current

[7.2.2.2(g)] adaptable monitoring / response

[7.2.2.3] timely risk mitigation

[7.3.7(c)] provide forensic capability

## WP.29 CSMS Supplemental

[7.2.2.1(b)] production phase CSMS

[7.2.2.2(h)] cybersecurity controls tracking

[7.3.2] management of type

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | SI.1.210 |
| 2 | IR.2.094, RM.2.143 |
| 3 | **none** |
| 4 | **none** |
| 5 | **none** |

# 9.7.4 Secure Deployment [AVCDL-Operation-4]

Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| C | R | C | - |

Software must be deployed in a secure manner.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Foundation-10]](#_9.1.10_Deployment_Plan_1) Deployment Plan

[[AVCDL-Release-3]](#_9.6.3_Release_Gate_1) Release Gate

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | * Deployment infrastructure * Deployment process |
| Development | Materials for deployment |
| Risk | **none** |

## AVCDL Products

[AVCDL-Operation-4.1] [Software Deployment Report](#ref_software_deployment_report)

## ISO 21434 Required Work Products

[WP-12-X1] Production control plan implementation

## WP.29 CSMS Requirements

[7.2.2.1(b)] production phase CSMS

## WP.29 CSMS Supplemental

[7.2.2.2(h)] cybersecurity controls tracking

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | AC.1.001, AC.1.002, AC.1.003. AC.1.004, IA.1.076, IA.1.077, PE.1.131, PE.1.133, PE.1.134 |
| 2 | AC.2.007, AC.2.008, AC.2.009, AC.2.010, IA.2.081, IA.2.082, MP.2.119, MP.2.120, MP.2.121, SC.2.179 |
| 3 | AC.3.017, AC.3.018, AC.3.019, AC.3.014, AM.3.036, AU.3.049, AU.3.052, IA.3.083, IA.3.084, IS.3.086 |
| 4 | AM.4.226 |
| 5 | AU.5.055 |

# 9.8 Decommissioning Phase

Predecessor: [Operation Phase](#_Operation_Phase)

Successor: N/A

Decommissioning is a part of the lifecycle of an item or component and is considered in the concept and product development phases.

Decommissioning is different from end of support. An organization can end support for an item or component, but that item or component can still function as designed in the field. Both decommissioning and end of support present cybersecurity implications, but those implications are considered separately.

Every product release should include a [decommissioning plan](#_Decommissioning_Plan_[AVCDL-Foundat) containing information as to how to properly dispose of the security-related information constrained within the product.

## [[AVCDL-Decommissioning-1] Apply Decommissioning Protocol](#_Apply_Decommissioning_Protocol)

The decommissioning protocol specified in the decommissioning plan should be applied to the system coming out of service.

Decommissioning phase product dependencies are visualized in Figure 15.

## ISO 21434 Required Work Products

**none**

# 9.8.1 Apply Decommissioning Protocol [AVCDL-Decommissioning-1]

## Owner

**Group:** [Devops](#_11.1_Groups_[devops])

**NCWF Role:** [Information Systems Security Developer](#_12.4_Information_Systems)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| I | R | - | - |

Apply protocols appropriate to ensuring that any and all security-related information has been purged from the system.

## Training Provided

**yes**

## Phase Requirement Dependencies

[[AVCDL-Foundation-8]](#_Decommissioning_Plan_[AVCDL-Foundat) Decommissioning Plan

## External Group Product Dependencies

|  |  |
| --- | --- |
| **Group** | **Inputs** |
| Devops | **none** |
| Development | List of data stored on systems |
| Risk | **none** |

## AVCDL Products

[AVCDL-Decommissioning-1.1] [Decommissioning Report](#ref_decommissioning_report)

## ISO 21434 Required Work Products

**none**

## WP.29 CSMS Requirements

[7.2.2.1(c)] post-production CSMS

## WP.29 CSMS Supplemental

**none**

## CMMC Applicable Practices

|  |  |
| --- | --- |
| **Level** | **Practice** |
| 1 | AC.1.001, AC.1.002, AC.1.003. AC.1.004, IA.1.076, IA.1.077, MP.1.118, PE.1.131, PE.1.133, PE.1.134 |
| 2 | AC.2.007, AC.2.008, AC.2.009, AC.2.010, IA.2.081, IA.2.082, SC.2.179 |
| 3 | AC.3.017, AC.3.018, AC.3.019, AC.3.014, AM.3.036, AU.3.049, AU.3.052, IA.3.083, IA.3.084, IS.3.086, MA.3.115, PE.3.136 |
| 4 | AM.4.226 |
| 5 | AU.5.055 |

# 9.9 Supplier Processes

Predecessor: N/A

Successor: N/A

Although the supplier processes are primarily the responsibility of the organization, there is a considerable amount of support required to ensure that the cybersecurity aspects of the distributed development are addressed.

## [[AVCDL-Supplier-1] AVCMDS](#_9.9.1_AVCMDS_[AVCDL-Supplier-1])

The Autonomous Vehicle Cybersecurity Manufacturer Disclosure Statement (AVCMDS) details the practices and capabilities of a supplier.

## [[AVCDL-Supplier-2] Supplier Self-reported Maturity](#_9.9.2_Supplier_Self-reported)

Supplier self-report maturity serves as a basis for establishing the cybersecurity relationship between the supplier and customer.

## [[AVCDL-Supplier-3] Cybersecurity Interface Agreement](#_9.9.3_Cybersecurity_Interface)

The Cybersecurity Interface Agreement (CIA) legally establishes the relationship between the supplier and customer.

**Note:** As the supplier processes are not primary to the AVCDL, they do not appear in roll-ups or traceability maps.

**Note:** Although all supplier process requirements indicate that training is provided, the training is not tracked in the training path diagram as there is a presumption of an overall understanding of the AVCDL as a whole.

## ISO 21434 Required Work Products

[WP-07-X1] Supplier capability

[WP-07-01] Cybersecurity interface agreement

# 9.9.1 AVCMDS [AVCDL-Supplier-1]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Systems Security Analyst](#_12.10_Systems_Security_1)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | - | - |

The Autonomous Vehicle Cybersecurity Manufacturer Disclosure Statement (AVCMDS) details the practices and capabilities of a supplier under consideration.

## Training Provided

**yes**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Supplier-1.1] [Autonomous Vehicle Cybersecurity Manufacturer Disclosure Statement](#avcdl_AVCMDS)

## ISO 21434 Required Work Products

[WP-07-X1] Supplier capability

## WP.29 CSMS Requirements

[7.3.2] management of type

## WP.29 CSMS Supplemental

[7.2.2.5] supplier deficiency management

## CMMC Applicable Practices

**none**

# 9.9.2 Supplier Self-reported Maturity [AVCDL-Supplier-2]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Systems Security Analyst](#_12.10_Systems_Security_1)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | - | - |

A supplier self-report maturity assessment serves as a basis for establishing the maturity of the supplier’s cybersecurity processes. The lifecycle put forth in this document is assumed to be the basis for comparison to ensure that all necessary activities are included.

## Training Provided

**yes**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Supplier-2.1] [Supplier Self-reported Cybersecurity Maturity Assessment](#avcdl_supplier_self_reported_assessment)

## ISO 21434 Required Work Products

[WP-07-X1] Supplier capability

## WP.29 CSMS Requirements

[7.3.2] management of type

## WP.29 CSMS Supplemental

[7.2.2.5] supplier deficiency management

## CMMC Applicable Practices

**none**

# 9.9.3 Cybersecurity Interface Agreement [AVCDL-Supplier-3]

## Owner

**Group:** [Security](#_11.3_Groups_[security])

**NCWF Role:** [Systems Security Analyst](#_12.10_Systems_Security_1)

## Administration

|  |  |  |  |
| --- | --- | --- | --- |
| security | devops | development | risk |
| R | - | - | - |

The Cybersecurity Interface Agreement (CIA) legally establishes the relationship between the supplier and customer.

## Training Provided

**yes**

## Phase Requirement Dependencies

**none**

## External Group Product Dependencies

**none**

## AVCDL Products

[AVCDL-Supplier-3.1] [Cybersecurity Interface Agreement](#avcdl_CIA)

## ISO 21434 Required Work Products

[WP-07-01] Cybersecurity interface agreement

## WP.29 CSMS Requirements

[7.2.2.2(f)] risk assessment kept current

[7.2.2.2(g)] adaptable monitoring / response

[7.2.2.5] supplier deficiency management

[7.3.2] management of type

## WP.29 CSMS Supplemental

**none**

## CMMC Applicable Practices

**none**

# 10. Requirement Role Assignments

The following table shows the ***AVCDL*** process requirement role assignments.

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement** | **Name** | **Group** | **NCWF Title** |
| [Foundation-1](#_9.1.1_Training_[AVCDL-Foundation-1]) | Training | [Security](#_11.3_Groups_[security]) | [Cyber Instructor](#_12.3_Cyber_Instructor) |
| [Foundation-2](#_9.1.2_Roles_and_1) | Roles and Responsibilities | [Security](#_11.3_Groups_[security]) | [Systems Requirements Planner](#_12.10_Systems_Security) |
| [Foundation-3](#_9.1.3_Toolchain_Support) | Toolchain Support | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
| [Foundation-4](#_9.1.4_Definition_of) | Definition of Security Requirements | [Security](#_11.3_Groups_[security]) | [Systems Requirements Planner](#_12.10_Systems_Security) |
| [Foundation-5](#_9.1.5_Protect_the) | Protect the Code | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
| [Foundation-6](#_9.1.6_Ensure_Release) | Ensure Release Integrity | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
| [Foundation-7](#_9.1.7_Incident_Response) | Incident Response Plan | [Security](#_11.3_Groups_[security]) | [Partner Integration Planner](#_12.5_Partner_Integration) |
| [Foundation-8](#_9.1.8_Decommissioning_Plan) | Decommissioning Plan | [Security](#_11.3_Groups_[security]) | [partner integration Planner](#_12.5_Partner_Integration) |
| [Foundation-9](#_9.1.9_Threat_Prioritization) | Threat Prioritization Plan | [Security](#_11.3_Groups_[security]) | [Systems Requirements Planner](#_12.10_Systems_Security) |
| [Foundation-10](#_9.1.10_Deployment_Plan_1) | Deployment Plan | [Security](#_11.3_Groups_[security]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
|  |  |  |  |
| [Requirements-1](#_9.2.1_Security_Requirements) | Definition of Security Requirements | [Security](#_11.3_Groups_[security]) | [Security Architect](#_12.7_Security_Architect) |
| [Requirements-2](#_9.2.2_Requirements_Gate) | Requirements Gate | [Security](#_11.3_Groups_[security]) | [Secure Software Assessor](#_12.6_Secure_Software) |
|  |  |  |  |
| [Design-1](#_9.3.1_Apply_Security) | Take Security Requirements and Risk Information into Account During Software Design | [Development](#_11.2_Groups_[development]) | [Software Developer](#_12.8_Systems_Requirements) |
| [Design-2](#_9.3.2_Security_Design) | Review the Software Design to Verify Compliance with Security Requirements and Risk Information | [Security](#_11.3_Groups_[security]) | [Systems Requirements Planner](#_12.10_Systems_Security) |
| [Design-3](#_9.3.3_Attack_Surface) | Attack Surface Reduction | [Security](#_11.3_Groups_[security]) | [Security Architect](#_12.7_Security_Architect) |
| [Design-4](#_9.3.4_Threat_Modeling) | Threat Modeling | [Security](#_11.3_Groups_[security]) | [Security Architect](#_12.7_Security_Architect) |
| [Design-5](#_9.3.5_Design_Gate) | Design Gate | [Security](#_11.3_Groups_[security]) | [Secure Software Assessor](#_12.6_Secure_Software) |
|  |  |  |  |
| [Implementation-1](#_9.4.1_Use_Approved) | Use Approved Tools | [Development](#_11.2_Groups_[development]) | [Software Developer](#_12.8_Systems_Requirements) |
| [Implementation-2](#_9.4.2_Configure_Build) | Configure the Compilation and Build Process to Improve Executable Security | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
| [Implementation-3](#_9.4.3_Use_Secure) | Configure the Software to Have Secure Settings by Default | [Security](#_11.3_Groups_[security]) | [Security Architect](#_12.7_Security_Architect) |
| [Implementation-4](#_9.4.4_Reuse_Well-Secured) | Reuse Existing, Well-Secured Software When Feasible Instead of Duplicating Functionality | [Development](#_11.2_Groups_[development]) | [Software Developer](#_12.8_Systems_Requirements) |
| [Implementation-5](#_9.4.5_Code_Securely) | Create Source Code Adhering to Secure Coding Practice | [Development](#_11.2_Groups_[development]) | [Software Developer](#_12.8_Systems_Requirements) |
| [Implementation-6](#_9.4.6_Deprecate_Unsafe) | Deprecate Unsafe Functions | [Development](#_11.2_Groups_[development]) | [Software Developer](#_12.8_Systems_Requirements) |
| [Implementation-7](#_9.4.7_Static_Analysis) | Static Analysis | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
| [Implementation-8](#_9.4.8_Dynamic_Program) | Dynamic Program Analysis | [Development](#_11.2_Groups_[development]) | [Software Developer](#_12.8_Systems_Requirements) |
| [Implementation-9](#_9.4.9_Security_Code) | Security Code Review | [Security](#_11.3_Groups_[security]) | [Secure Software Assessor](#_12.6_Secure_Software) |
| [Implementation-10](#_Implementation_Gate_[AVCDL-Implemen) | Fuzz Testing | [Security](#_11.3_Groups_[security]) | [Vulnerability Assessment Analyst](#_12.11_Vulnerability_Assessment) |
| [Implementation-11](#_9.4.11_Implementation_Gate_1) | Implementation Gate | [Security](#_11.3_Groups_[security]) | [Secure Software Assessor](#_12.6_Secure_Software) |
|  |  |  |  |
| [Verification-1](#_9.5.2_Penetration_Testing) | Penetration Testing | [Security](#_11.3_Groups_[security]) | [Vulnerability Assessment Analyst](#_12.11_Vulnerability_Assessment) |
| [Verification-2](#_9.5.3_Threat_Model_1) | Threat Model Review | [Security](#_11.3_Groups_[security]) | [Security Architect](#_12.7_Security_Architect) |
| [Verification-3](#_9.5.4_Attack_Surface) | Attack Surface Analysis Review | [Security](#_11.3_Groups_[security]) | [Security Architect](#_12.7_Security_Architect) |
| [Verification-4](#_9.5.5_Verification_Gate) | Verification Gate | [Security](#_11.3_Groups_[security]) | [Secure Software Assessor](#_12.6_Secure_Software) |
|  |  |  |  |
| [Release-1](#_9.6.1_Final_Security) | Final Security Review | [Security](#_11.3_Groups_[security]) | [Secure Software Assessor](#_12.6_Secure_Software) |
| [Release-2](#_9.6.2_Archive_[AVCDL-Release-2]) | Archive | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
| [Release-3](#_9.6.3_Release_Gate_1) | Release Gate | [Security](#_11.3_Groups_[security]) | [Secure Software Assessor](#_12.6_Secure_Software) |
|  |  |  |  |
| [Operation-1](#_9.7.1_Identify_and) | Identify and Confirm Vulnerabilities on an Ongoing Basis | [Security](#_11.3_Groups_[security]) | [Cyber Defense Incident Responder](#_12.2_Cyber_Defense) |
| [Operation-2](#_9.7.2_Assess_and) | Assess and Prioritize the Remediation of all Vulnerabilities | [Security](#_11.3_Groups_[security]) | [Cyber Defense Forensics Analyst](#_12.1_Cyber_Defense) |
| [Operation-3](#_9.7.3_Root_Cause_1) | Analyze Vulnerabilities to Identify Their Root Causes | [Security](#_11.3_Groups_[security]) | [Cyber Defense Forensics Analyst](#_12.1_Cyber_Defense) |
| [Operation-4](#_9.7.4_Secure_Deployment) | Secure Deployment | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
|  |  |  |  |
| [Decommissioning-1](#_9.8.1_Apply_Decommissioning) | Decommissioning Protocol | [Devops](#_11.1_Groups_[devops]) | [Information Systems Security Developer](#_12.4_Information_Systems) |
|  |  |  |  |
| [Supplier-1](#_9.9.1_AVCMDS_[AVCDL-Supplier-1]) | AVCMDS | [Security](#_11.3_Groups_[security]) | [Systems Security Analyst](#_12.10_Systems_Security_1) |
| [Supplier-2](#_9.9.2_Supplier_Self-reported) | Supplier Self-reported Maturity | [Security](#_11.3_Groups_[security]) | [Systems Security Analyst](#_12.10_Systems_Security_1) |
| [Supplier-3](#_9.9.3_Cybersecurity_Interface) | Cybersecurity Interface Agreement | [Security](#_11.3_Groups_[security]) | [Systems Security Analyst](#_12.10_Systems_Security_1) |

Table - Requirement Role Assignments

# 11. Groups

This section summarizes the AVCDL phase requirements by group showing those requirements for which they have primary responsibility (*accountable* in RACI parlance).

* [Devops](#_11.1_Groups_[devops])
* [Development](#_11.2_Groups_[development])
* [Security](#_11.3_Groups_[security])
* [Risk](#_11.4_Groups_[Risk])

The following is a summary mapping of the phase requirements to the groups involved:  
(highlight shows group accountable)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Title** | security | devops | development | risk |
| Foundation | 1 | Training | **R** | **I** | **C** | **I** |
| 2 | Roles and Responsibilities | **R** | **C** | **C** |  |
| 3 | Toolchain Support | **C** | **R** | **C** |  |
| 4 | Definition of Security Requirements | **R** | **I** | **I** |  |
| 5 | Protect the Code | **C** | **R** |  |  |
| 6 | Ensure Release Integrity | **C** | **R** | **C** |  |
| 7 | Incident Response Plan | **R** |  | **C** |  |
| 8 | Decommissioning Plan | **R** | **C** | **C** |  |
| 9 | Threat Prioritization Plan | **R** |  | **I** | **I** |
| 10 | Deployment Plan | **C** | **R** | **C** |  |
|  |  |  |  |  |  |  |
| Requirements | 1 | Security Requirements Definition | **R** |  | **I** |  |
| 2 | Requirements Gate | **R** |  | **R** |  |
|  |  |  |  |  |  |  |
| Design | 1 | Apply Security Requirements and Risk Information to Design | **R** |  | **R** |  |
| 2 | Security Design Review | **R** |  | **R** | **C** |
| 3 | Attack Surface Reduction | **R** |  | **R** |  |
| 4 | Threat Modeling | **R** |  | **R** | **R** |
| 5 | Design Gate | **R** |  | **R** | **R** |
|  |  |  |  |  |  |  |
| Implementation | 1 | Use Approved Tools | **C** | **C** | **R** |  |
| 2 | Configure the Compilation and Build Process to Improve Executable Security | **C** | **R** | **C** |  |
| 3 | Configure the Software to Have Secure Settings by Default | **R** |  | **R** |  |
| 4 | Reuse Existing, Well-Secured Software When Feasible Instead of Duplicating Functionality | **C** | **I** | **R** |  |
| 5 | Create Source Code Adhering to Secure Coding Practice | **C** |  | **R** |  |
| 6 | Deprecate Unsafe Functions | **C** |  | **R** |  |
| 7 | Static Analysis | **C** | **R** | **C** |  |
| 8 | Dynamic Program Analysis | **C** |  | **R** |  |
| 9 | Security Code Review | **R** |  | **C** |  |
| 10 | Implementation Gate | **R** | **R** | **R** |  |
| 11 | Fuzz Testing | **R** | **C** | **C** |  |
|  |  |  |  |  |  |  |
| Verification | 1 | Penetration Testing | **R** | **C** | **C** |  |
| 2 | Threat Model Review | **R** |  | **R** | **R** |
| 3 | Attack Surface Analysis Review | **R** |  | **R** |  |
| 4 | Verification Gate | **R** |  | **R** | **R** |
|  |  |  |  |  |  |  |
| Release | 1 | Final Security Review | **R** | **C** | **C** | **C** |
| 2 | Archive |  | **R** | **C** |  |
| 3 | Release Gate | **R** | **R** | **R** | **R** |
|  |  |  |  |  |  |  |
| Operation | 1 | Identify and Confirm Vulnerabilities on an Ongoing Basis | **R** |  | **C** |  |
| 2 | Assess and Prioritize the Remediation of all Vulnerabilities | **R** |  | **C** | **C** |
| 3 | Analyze Vulnerabilities to Identify Their Root Causes | **R** |  | **C** |  |
| 4 | Secure Deployment | **C** | **R** | **C** |  |
|  |  |  |  |  |  |  |
| Decommissioning | 1 | Apply Decommissioning Protocol | **I** | **R** |  |  |

Table – AVCDL Phase Requirement - Group Mapping

**Note:** Information regarding RACI is at: <https://en.wikipedia.org/wiki/Responsibility_assignment_matrix>

# 11.1 Groups [Devops]

The following process requirements are the responsibility of devops:

|  |  |
| --- | --- |
| Requirement | Description |
| [Foundation-3](#_Toolchain_Support_[AVCDL-Foundation) | Toolchain Support |
| [Foundation-5](#_Protect_the_Code) | Protect the Code |
| [Foundation-6](#_Ensure_Release_Integrity) | Ensure Release Integrity |
| [Foundation-10](#_9.1.10_Deployment_Plan_1) | Deployment Plan |
| [Implementation-2](#_Configure_Build_Process) | Configure the Compilation and Build Process to Improve Executable Security |
| [Implementation-7](#_Static_Analysis_[AVCDL-Implementati) | Static Analysis |
| [Release-2](#_Archive_[AVCDL-Release-2]) | Archive |
| [Operation-4](#_Secure_Deployment_[AVCDL-Operation-) | Secure Deployment |
| [Decommissioning‑1](#_Apply_Decommissioning_Protocol) | Decommissioning Protocol |

Table - Devops Requirement Responsibilities

# 11.2 Groups [Development]

The following process requirements are the responsibility of development:

|  |  |
| --- | --- |
| Requirement | Description |
| [Design-1](#_Apply_Security_Requirements) | Take Security Requirements and Risk Information into Account During Software Design |
| [Implementation-1](#_Use_Approved_Tools) | Use Approved Tools |
| [Implementation-4](#_Reuse_Well-Secured_Software) | Reuse Existing, Well-Secured Software When Feasible Instead of Duplicating Functionality |
| [Implementation-5](#_Code_Securely_[AVCDL-Implementation) | Create Source Code Adhering to Secure Coding Practice |
| [Implementation‑6](#_Deprecate_Unsafe_Functions) | Deprecate Unsafe Functions |
| [Implementation-8](#_Dynamic_Program_Analysis) | Dynamic Program Analysis |

Table - Development Requirement Responsibilities

# 11.3 Groups [Security]

The following process requirements are the responsibility of security:

|  |  |
| --- | --- |
| Requirement | Description |
| [Foundation-1](#_Training_[AVCDL-Foundation-1]) | Training |
| [Foundation-2](#_9.1.2_Roles_and_1) | Roles and Responsibilities |
| [Foundation-4](#_Definition_of_Security) | Definition of Security Requirements |
| [Foundation-7](#_Incident_Response_Plan) | Incident Response Plan |
| [Foundation-8](#_Decommissioning_Plan_[AVCDL-Foundat) | Decommissioning Plan |
| [Foundation-9](#_Threat_Prioritization_Plan) | Threat Prioritization Plan |
| [Requirements-1](#_Security_Requirements_Definition) | Definition of Security Requirements |
| [Requirements-2](#_Requirements_Gate_[AVCDL-Requiremen) | Requirements Gate |
| [Design-2](#_Security_Design_Review) | Review the Software Design to Verify Compliance with Security Requirements and Risk Information |
| [Design-3](#_Attack_Surface_Reduction) | Attack Surface Reduction |
| [Design-4](#_Threat_Modeling_[AVCDL-Design-4]) | Threat Modeling |
| [Design-5](#_Design_Gate_[AVCDL-Design-5]) | Design Gate |
| [Implementation-3](#_Use_Secure_Settings) | Configure the Software to Have Secure Settings by Default |
| [Implementation-10](#_Implementation_Gate_[AVCDL-Implemen) | Fuzz Testing |
| [Implementation‑11](#_9.4.11_Implementation_Gate_1) | Implementation Gate |
| [Verification-1](#_Penetration_Testing_[AVCDL-Verifica) | Penetration Testing |
| [Verification-2](#_9.5.3_Threat_Model_1) | Threat Model Review |
| [Verification-3](#_Attack_Surface_Analysis) | Attack Surface Analysis Review |
| [Verification-4](#_Verification_Gate_[AVCDL-Verificati) | Verification Gate |
| [Release-1](#_Final_Security_Review) | Final Security Review |
| [Release-3](#_9.6.3_Release_Gate_1) | Release Gate |
| [Operation-1](#_Identify_and_Confirm) | Identify and Confirm Vulnerabilities on an Ongoing Basis |
| [Operation-2](#_Assess_and_Prioritize) | Assess and Prioritize the Remediation of all Vulnerabilities |
| [Operation-3](#_9.7.3_Root_Cause_1) | Analyze Vulnerabilities to Identify Their Root Causes |
| [Supplier-1](#_9.9.1_AVCMDS_[AVCDL-Supplier-1]) | AVCMDS |
| [Supplier-2](#_9.9.2_Supplier_Self-reported) | Supplier Self-reported Maturity |
| [Supplier-3](#_9.9.3_Cybersecurity_Interface) | Cybersecurity Interface Agreement |

Table - Security Requirement Responsibilities

# 11.4 Groups [Risk]

**Note:** There are no process requirements for which the risk group has primary responsibility.

# 12. NCWF Roles

## Note: This material is extracted from the NIST NCWF documentation. It is included here for reference only.

**NIST SP 800-181** [***National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework (NCWF)***] provides an exhaustive breakdown of cybersecurity roles and their associated tasks.

The following NCWF roles have been identified as necessary in support of implementation of ***AVCDL***:

* [Cyber Defense Forensics Analyst](#_12.1_Cyber_Defense)
* [Cyber Defense Incident Responder](#_12.2_Cyber_Defense)
* [Cyber Instructor](#_12.3_Cyber_Instructor)
* [Information Systems Security Developer](#_12.4_Information_Systems)
* [Partner Integration Planner](#_12.5_Partner_Integration)
* [Secure Software Assessor](#_12.6_Secure_Software)
* [Security Architect](#_12.7_Security_Architect)
* [Software Developer](#_12.9_Software_Developer)
* [Systems Requirements Planner](#_12.10_Systems_Security)
* [Systems Security Analyst](#_12.10_Systems_Security_1)
* [Vulnerability Assessment Analyst](#_12.11_Vulnerability_Assessment)

**Note:** There will be tasks and abilities called out for roles in NCWF which are not leveraged. Additionally, there will be areas where there is not a 1-to-1 mapping.

# 12.1 Cyber Defense Forensics Analyst (IN-FOR-002)

Analyzes digital evidence and investigates computer security incidents to derive useful information in support of system/network vulnerability mitigation.

|  |  |
| --- | --- |
| ID | Task |
| T0027 | Conduct analysis of log files, evidence, and other information to determine best methods for identifying the perpetrator(s) of a network intrusion. |
| T0036 | Confirm what is known about an intrusion and discover new information, if possible, after identifying intrusion via dynamic analysis. |
| T0048 | Create a forensically sound duplicate of the evidence (i.e., forensic image) that ensures the original evidence is not unintentionally modified, to use for data recovery and analysis processes. This includes, but is not limited to, hard drives, floppy diskettes, CDs, PDAs, mobile phones, GPS, and all tape formats. |
| T0049 | Decrypt seized data using technical means. |
| T0075 | Provide technical summary of findings in accordance with established reporting procedures. |
| T0087 | Ensure that chain of custody is followed for all digital media acquired in accordance with the Federal Rules of Evidence. |
| T0103 | Examine recovered data for information of relevance to the issue at hand. |
| T0113 | Identify digital evidence for examination and analysis in such a way as to avoid unintentional alteration. |
| T0165 | Perform dynamic analysis to boot an ‘image’ of a drive (without necessarily having the original drive) to see the intrusion as the user may have seen it, in a native environment. |
| T0167 | Perform file signature analysis. |
| T0168 | Perform hash comparison against established database. |
| T0172 | Perform real-time forensic analysis (e.g., using Helix in conjunction with LiveView). |
| T0173 | Perform timeline analysis. |
| T0175 | Perform real-time cyber defense incident handling (e.g., forensic collections, intrusion correlation and tracking, threat analysis, and direct system remediation) tasks to support deployable Incident Response Teams (IRTs). |
| T0179 | Perform static media analysis. |
| T0182 | Perform tier 1, 2, and 3 malware analysis. |
| T0190 | Prepare digital media for imaging by ensuring data integrity (e.g., write blockers in accordance with standard operating procedures). |
| T0212 | Provide technical assistance on digital evidence matters to appropriate personnel. |
| T0216 | Recognize and accurately report forensic artifacts indicative of a particular operating system. |
| T0238 | Extract data using data carving techniques (e.g., Forensic Tool Kit [FTK], Foremost). |
| T0240 | Capture and analyze network traffic associated with malicious activities using network monitoring tools. |
| T0241 | Use specialized equipment and techniques to catalog, document, extract, collect, package, and preserve digital evidence. |
| T0253 | Conduct cursory binary analysis. |
| T0279 | Serve as technical expert and liaison to law enforcement personnel and explain incident details as required. |
| T0285 | Perform virus scanning on digital media. |
| T0286 | Perform file system forensic analysis. |
| T0287 | Perform static analysis to mount an “image” of a drive (without necessarily having the original drive). |
| T0288 | Perform static malware analysis. |
| T0289 | Utilize deployable forensics toolkit to support operations as necessary. |
| T0312 | Coordinate with intelligence analysts to correlate threat assessment data. |
| T0396 | Process image with appropriate tools depending on analyst’s goals. |
| T0397 | Perform Windows registry analysis. |
| T0398 | Perform file and registry monitoring on the running system after identifying intrusion via dynamic analysis. |
| T0399 | Enter media information into tracking database (e.g., Product Tracker Tool) for digital media that has been acquired. |
| T0400 | Correlate incident data and perform cyber defense reporting. |
| T0401 | Maintain deployable cyber defense toolkit (e.g., specialized cyber defense software/hardware) to support Incident Response Team mission. |
| T0432 | Collect and analyze intrusion artifacts (e.g., source code, malware, and system configuration) and use discovered data to enable mitigation of potential cyber defense incidents within the enterprise. |
| T0532 | Review forensic images and other data sources (e.g., volatile data) for recovery of potentially relevant information. |
| T0546 | Write and publish cyber defense recommendations, reports, and white papers on incident findings to appropriate constituencies. |

# 12.2 Cyber Defense Incident Responder (PR-CIR-001)

Investigates, analyzes, and responds to cyber incidents within the network environment or enclave.

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| ID | Task |
| T0041 | Coordinate and provide expert technical support to enterprise-wide cyber defense technicians to resolve cyber defense incidents. |
| T0047 | Correlate incident data to identify specific vulnerabilities and make recommendations that enable expeditious remediation. |
| T0161 | Perform analysis of log files from a variety of sources (e.g., individual host logs, network traffic logs, firewall logs, and intrusion detection system [IDS] logs) to identify possible threats to network security. |
| T0163 | Perform cyber defense incident triage, to include determining scope, urgency, and potential impact, identifying the specific vulnerability, and making recommendations that enable expeditious remediation. |
| T0164 | Perform cyber defense trend analysis and reporting. |
| T0170 | Perform initial, forensically sound collection of images and inspect to discern possible mitigation/remediation on enterprise systems. |
| T0175 | Perform real-time cyber defense incident handling (e.g., forensic collections, intrusion correlation and tracking, threat analysis, and direct system remediation) tasks to support deployable Incident Response Teams (IRTs). |
| T0214 | Receive and analyze network alerts from various sources within the enterprise and determine possible causes of such alerts. |
| T0233 | Track and document cyber defense incidents from initial detection through final resolution. |
| T0246 | Write and publish cyber defense techniques, guidance, and reports on incident findings to appropriate constituencies. |
| T0262 | Employ approved defense-in-depth principles and practices (e.g., defense-in-multiple places, layered defenses, security robustness). |
| T0278 | Collect intrusion artifacts (e.g., source code, malware, Trojans) and use discovered data to enable mitigation of potential cyber defense incidents within the enterprise. |
| T0279 | Serve as technical expert and liaison to law enforcement personnel and explain incident details as required. |
| T0312 | Coordinate with intelligence analysts to correlate threat assessment data. |
| T0395 | Write and publish after action reviews. |
| T0503 | Monitor external data sources (e.g., cyber defense vendor sites, Computer Emergency Response Teams, Security Focus) to maintain currency of cyber defense threat condition and determine which security issues may have an impact on the enterprise. |
| T0510 | Coordinate incident response functions. |

# 12.3 Cyber Instructor (OV-TEA-002)

Develops and conducts training or education of personnel within cyber domain.

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| ID | Task |
| T0030 | Conduct interactive training exercises to create an effective learning environment. |
| T0073 | Develop new or identify existing awareness and training materials that are appropriate for intended audiences. |
| T0101 | Evaluate the effectiveness and comprehensiveness of existing training programs. |
| T0224 | Review training documentation (e.g., Course Content Documents [CCD], lesson plans, student texts, examinations, Schedules of Instruction [SOI], and course descriptions). |
| T0230 | Support the design and execution of exercise scenarios. |
| T0247 | Write instructional materials (e.g., standard operating procedures, production manual) to provide detailed guidance to relevant portion of the workforce. |
| T0316 | Develop or assist in the development of computer-based training modules or classes. |
| T0317 | Develop or assist in the development of course assignments. |
| T0318 | Develop or assist in the development of course evaluations. |
| T0319 | Develop or assist in the development of grading and proficiency standards. |
| T0320 | Assist in the development of individual/collective development, training, and/or remediation plans. |
| T0321 | Develop or assist in the development of learning objectives and goals. |
| T0322 | Develop or assist in the development of on-the-job training materials or programs. |
| T0323 | Develop or assist in the development of written tests for measuring and assessing learner proficiency. |
| T0352 | Conduct learning needs assessments and identify requirements. |
| T0365 | Develop or assist in the development of training policies and protocols for cyber training. |
| T0367 | Develop the goals and objectives for cyber curriculum. |
| T0381 | Present technical information to technical and nontechnical audiences. |
| T0382 | Present data in creative formats. |
| T0395 | Write and publish after action reviews. |
| T0443 | Deliver training courses tailored to the audience and physical/virtual environments. |
| T0444 | Apply concepts, procedures, software, equipment, and/or technology applications to students. |
| T0450 | Design training curriculum and course content based on requirements. |
| T0451 | Participate in development of training curriculum and course content. |
| T0467 | Ensure that training meets the goals and objectives for cybersecurity training, education, or awareness. |
| T0519 | Plan and coordinate the delivery of classroom techniques and formats (e.g., lectures, demonstrations, interactive exercises, multimedia presentations) for the most effective learning environment. |
| T0520 | Plan non-classroom educational techniques and formats (e.g., video courses, mentoring, web-based courses). |
| T0535 | Recommend revisions to curriculum and course content based on feedback from previous training sessions. |
| T0536 | Serve as an internal consultant and advisor in own area of expertise (e.g., technical, copyright, print media, electronic media). |
| T0926 | Develop or assist with the development of privacy training materials and other communications to increase employee understanding of company privacy policies, data handling practices and procedures and legal obligations. |

# 12.4 Information Systems Security Developer (SP-SYS-001)

Designs, develops, tests, and evaluates information system security throughout the systems development life cycle.

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| ID | Task |
| T0012 | Analyze design constraints, analyze trade-offs and detailed system and security design, and consider life cycle support |
| T0015 | Apply security policies to applications that interface with one another, such as Business-to-Business (B2B) applications |
| T0018 | Assess the effectiveness of cybersecurity measures utilized by system(s) |
| T0019 | Assess threats to and vulnerabilities of computer system(s) to develop a security risk profile |
| T0021 | Build, test, and modify product prototypes using working models or theoretical models |
| T0032 | Conduct Privacy Impact Assessments (PIAs) of the application’s security design for the appropriate security controls, which protect the confidentiality and integrity of Personally Identifiable Information (PII) |
| T0053 | Design and develop cybersecurity or cybersecurity-enabled products. |
| T0055 | Design hardware, operating systems, and software applications to adequately address cybersecurity requirements |
| T0056 | Design or integrate appropriate data backup capabilities into overall system designs, and ensure that appropriate technical and procedural processes exist for secure system backups and protected storage of backup data |
| T0061 | Develop and direct system testing and validation procedures and documentation |
| T0069 | Develop detailed security design documentation for component and interface specifications to support system design and development |
| T0070 | Develop Disaster Recovery and Continuity of Operations plans for systems under development and ensure testing prior to systems entering a production environment |
| T0076 | Develop risk mitigation strategies to resolve vulnerabilities and recommend security changes to system or system components as needed |
| T0078 | Develop specific cybersecurity countermeasures and risk mitigation strategies for systems and/or applications |
| T0105 | Identify components or elements, allocate security functions to those elements, and describe the relationships between the elements |
| T0107 | Identify and direct the remediation of technical problems encountered during testing and implementation of new systems (e.g., identify and find workarounds for communication protocols that are not interoperable) |

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| T0109 | Identify and prioritize essential system functions or sub-systems required to support essential capabilities or business functions for restoration or recovery after a system failure or during a system recovery event based on overall system requirements for continuity and availability |
| T0119 | Identify, assess, and recommend cybersecurity or cybersecurity-enabled products for use within a system and ensure that recommended products are in compliance with organization’s evaluation and validation requirements |
| T0122 | Implement security designs for new or existing system(s) |
| T0124 | Incorporate cybersecurity vulnerability solutions into system designs (e.g., Cybersecurity Vulnerability Alerts) |
| T0181 | Perform risk analysis (e.g., threat, vulnerability, and probability of occurrence) whenever an application or system undergoes a major change |
| T0201 | Provide guidelines for implementing developed systems to customers or installation teams |
| T0205 | Provide input to the Risk Management Framework process activities and related documentation (e.g., system life-cycle support plans, concept of operations, operational procedures, and maintenance training materials). |
| T0228 | Store, retrieve, and manipulate data for analysis of system capabilities and requirements |
| T0231 | Provide support to security/certification test and evaluation activities |
| T0242 | Utilize models and simulations to analyze or predict system performance under different operating conditions |
| T0269 | Design and develop key management functions (as related to cybersecurity) |
| T0270 | Analyze user needs and requirements to plan and conduct system security development |
| T0271 | Develop cybersecurity designs to meet specific operational needs and environmental factors (e.g., access controls, automated applications, networked operations, high integrity and availability requirements, multilevel security/processing of multiple classification levels, and processing Sensitive Compartmented Information) |
| T0272 | Ensure that security design and cybersecurity development activities are properly documented (providing a functional description of security implementation) and updated as necessary |
| T0304 | Implement and integrate system development life cycle (SDLC) methodologies (e.g., IBM Rational Unified Process) into development environment. |
| T0326 | Employ configuration management processes |
| T0359 | Design, implement, test, and evaluate secure interfaces between information systems, physical systems, and/or embedded technologies |
| T0446 | Design, develop, integrate, and update system security measures that provide confidentiality, integrity, availability, authentication, and non-repudiation |
| T0449 | Design to security requirements to ensure requirements are met for all systems and/or applications |
| T0466 | Develop mitigation strategies to address cost, schedule, performance, and security risks |
| T0509 | Perform an information security risk assessment |
| T0518 | Perform security reviews and identify security gaps in architecture. |
| T0527 | Provide input to implementation plans and standard operating procedures as they relate to information systems security |
| T0541 | Trace system requirements to design components and perform gap analysis. |
| T0544 | Verify stability, interoperability, portability, and/or scalability of system architecture |

# 12.5 Partner Integration Planner (CO-OPL-003)

Works to advance cooperation across organizational or national borders between cyber operations partners. Aids the integration of partner cyber teams by providing guidance, resources, and collaboration to develop best practices and facilitate organizational support for achieving objectives in integrated cyber actions.

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| ID | Task |
| T0571 | Apply expertise in policy and processes to facilitate the development, negotiation, and internal staffing of plans and/or memorandums of agreement. |
| T0581 | Assist and advise interagency partners in identifying and developing best practices for facilitating operational support to achievement of organization objectives. |
| T0582 | Provide expertise to course of action development. |
| T0601 | Collaborate with other team members or partner organizations to develop a diverse program of information materials (e.g., web pages, briefings, print materials). |
| T0627 | Contribute to crisis action planning for cyber operations. |
| T0629 | Contribute to the development, staffing, and coordination of cyber operations policies, performance standards, plans and approval packages with appropriate internal and/or external decision makers. |
| T0635 | Coordinate with intelligence and cyber defense partners to obtain relevant essential information. |
| T0665 | Develop or participate in the development of standards for providing, requesting, and/or obtaining support from external partners to synchronize cyber operations. |
| T0666 | Develop or shape international cyber engagement strategies, policies, and activities to meet organization objectives. |
| T0669 | Develop strategy and processes for partner planning, operations, and capability development. |
| T0670 | Develop, implement, and recommend changes to appropriate planning procedures and policies. |
| T0671 | Develop, maintain, and assess cyber cooperation security agreements with external partners. |
| T0699 | Facilitate interactions between internal and external partner decision makers to synchronize and integrate courses of action in support of objectives. |
| T0700 | Facilitate the sharing of ‘best practices’ and ‘lessons learned’ throughout the cyber operations community. |
| T0712 | Identify and manage security cooperation priorities with external partners. |
| T0729 | Inform external partners of the potential effects of new or revised policy and guidance on cyber operations partnering activities. |
| T0732 | Integrate cyber planning/targeting efforts with other organizations. |
| T0739 | Maintain relationships with internal and external partners involved in cyber planning or related areas. |
| T0747 | Monitor and evaluate integrated cyber operations to identify opportunities to meet organization objectives. |
| T0759 | Contribute to the review and refinement of policy, to include assessments of the consequences of endorsing or not endorsing such policy. |
| T0760 | Provide subject matter expertise to planning teams, coordination groups, and task forces as necessary. |
| T0763 | Conduct long-range, strategic planning efforts with internal and external partners in cyber activities. |
| T0764 | Provide subject matter expertise to planning efforts with internal and external cyber operations partners. |
| T0766 | Propose policy which governs interactions with external coordination groups. |
| T0772 | Prepare for and provide subject matter expertise to exercises. |
| T0784 | Provide cyber focused guidance and advice on intelligence support plan inputs. |
| T0787 | Provide input for the development and refinement of the cyber operations objectives, priorities, strategies, plans, and programs. |
| T0795 | Provide planning support between internal and external partners. |
| T0817 | Serve as a conduit of information from partner teams by identifying subject matter experts who can assist in the investigation of complex or unusual situations. |
| T0818 | Serve as a liaison with external partners. |
| T0823 | Submit or respond to requests for deconfliction of cyber operations. |
| T0825 | Synchronize cyber international engagement activities and associated resource requirements as appropriate. |
| T0826 | Synchronize cyber portions of security cooperation plans. |
| T0836 | Document lessons learned that convey the results of events and/or exercises. |

# 12.6 Secure Software Assessor (SP-DEV-002)

Analyzes the security of new or existing computer applications, software, or specialized utility programs and provides actionable results.

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| ID | Task |
| T0013 | Apply coding and testing standards, apply security testing tools including “’fuzzing” static-analysis code scanning tools, and conduct code reviews. |
| T0014 | Apply secure code documentation. |
| T0022 | Capture security controls used during the requirements phase to integrate security within the process, to identify key security objectives, and to maximize software security while minimizing disruption to plans and schedules. |
| T0038 | Develop threat model based on customer interviews and requirements. |
| T0040 | Consult with engineering staff to evaluate interface between hardware and software. |
| T0100 | Evaluate factors such as reporting formats required, cost constraints, and need for security restrictions to determine hardware configuration. |
| T0111 | Identify basic common coding flaws at a high level. |
| T0117 | Identify security implications and apply methodologies within centralized and decentralized environments across the enterprise’s computer systems in software development. |
| T0118 | Identify security issues around steady state operation and management of software and incorporate security measures that must be taken when a product reaches its end of life. |
| T0171 | Perform integrated quality assurance testing for security functionality and resiliency attack. |
| T0181 | Perform risk analysis (e.g., threat, vulnerability, and probability of occurrence) whenever an application or system undergoes a major change. |
| T0217 | Address security implications in the software acceptance phase including completion criteria, risk acceptance and documentation, common criteria, and methods of independent testing. |
| T0228 | Store, retrieve, and manipulate data for analysis of system capabilities and requirements. |
| T0236 | Translate security requirements into application design elements including documenting the elements of the software attack surfaces, conducting threat modeling, and defining any specific security criteria. |
| T0266 | Perform penetration testing as required for new or updated applications. |
| T0311 | Consult with customers about software system design and maintenance. |
| T0324 | Direct software programming and development of documentation. |
| T0337 | Supervise and assign work to programmers, designers, technologists and technicians, and other engineering and scientific personnel. |
| T0424 | Analyze and provide information to stakeholders that will support the development of security application or modification of an existing security application. |
| T0428 | Analyze security needs and software requirements to determine feasibility of design within time and cost constraints and security mandates. |
| T0436 | Conduct trial runs of programs and software applications to ensure that the desired information is produced, and instructions and security levels are correct. |
| T0456 | Develop secure software testing and validation procedures. |
| T0457 | Develop system testing and validation procedures, programming, and documentation. |
| T0516 | Perform secure program testing, review, and/or assessment to identify potential flaws in codes and mitigate vulnerabilities. |
| T0554 | Determine and document software patches or the extent of releases that would leave software vulnerable. |

# 12.7 Security Architect (SP-ARC-002)

Ensures that the stakeholder security requirements necessary to protect the organization’s mission and business processes are adequately addressed in all aspects of enterprise architecture including reference models, segment and solution architectures, and the resulting systems supporting those missions and business processes.

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| ID | Task |
| T0050 | Define and prioritize essential system capabilities or business functions required for partial or full system restoration after a catastrophic failure event. |
| T0051 | Define appropriate levels of system availability based on critical system functions and ensure that system requirements identify appropriate disaster recovery and continuity of operations requirements to include any appropriate fail-over/alternate site requirements, backup requirements, and material supportability requirements for system recover/restoration. |
| T0071 | Develop/integrate cybersecurity designs for systems and networks with multilevel security requirements or requirements for the processing of multiple classification levels of data primarily applicable to government organizations (e.g., UNCLASSIFIED, SECRET, and TOP SECRET). |
| T0082 | Document and address organization’s information security, cybersecurity architecture, and systems security engineering requirements throughout the acquisition life cycle. |
| T0084 | Employ secure configuration management processes. |
| T0090 | Ensure that acquired or developed system(s) and architecture(s) are consistent with organization’s cybersecurity architecture guidelines. |
| T0108 | Identify and prioritize critical business functions in collaboration with organizational stakeholders. |
| T0177 | Perform security reviews, identify gaps in security architecture, and develop a security risk management plan. |
| T0196 | Provide advice on project costs, design concepts, or design changes. |
| T0203 | Provide input on security requirements to be included in statements of work and other appropriate procurement documents. |
| T0205 | Provide input to the Risk Management Framework process activities and related documentation (e.g., system life-cycle support plans, concept of operations, operational procedures, and maintenance training materials). |
| T0268 | Define and document how the implementation of a new system or new interfaces between systems impacts the security posture of the current environment. |
| T0307 | Analyze candidate architectures, allocate security services, and select security mechanisms. |
| T0314 | Develop a system security context, a preliminary system security Concept of Operations (CONOPS) and define baseline system security requirements in accordance with applicable cybersecurity requirements. |
| T0328 | Evaluate security architectures and designs to determine the adequacy of security design and architecture proposed or provided in response to requirements contained in acquisition documents. |
| T0338 | Write detailed functional specifications that document the architecture development process. |
| T0427 | Analyze user needs and requirements to plan architecture. |
| T0448 | Develop enterprise architecture or system components required to meet user needs. |
| T0473 | Document and update as necessary all definition and architecture activities. |
| T0484 | Determine the protection needs (i.e., security controls) for the information system(s) and network(s) and document appropriately. |
| T0542 | Translate proposed capabilities into technical requirements. |
| T0556 | Assess and design security management functions as related to cyberspace. |

# 12.8 Software Developer (SP-DEV-001)

Develops, creates, maintains, and writes/codes new (or modifies existing) computer applications, software, or specialized utility programs.

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| ID | Task |
| T0009 | Analyze information to determine, recommend, and plan the development of a new application or modification of an existing application. |
| T0011 | Analyze user needs and software requirements to determine feasibility of design within time and cost constraints. |
| T0013 | Apply coding and testing standards, apply security testing tools including “’fuzzing” static-analysis code scanning tools, and conduct code reviews. |
| T0014 | Apply secure code documentation. |
| T0022 | Capture security controls used during the requirements phase to integrate security within the process, to identify key security objectives, and to maximize software security while minimizing disruption to plans and schedules. |
| T0026 | Compile and write documentation of program development and subsequent revisions, inserting comments in the coded instructions so others can understand the program. |
| T0034 | Confer with systems analysts, engineers, programmers, and others to design application and to obtain information on project limitations and capabilities, performance requirements, and interfaces. |
| T0040 | Consult with engineering staff to evaluate interface between hardware and software. |
| T0046 | Correct errors by making appropriate changes and rechecking the program to ensure that desired results are produced. |
| T0057 | Design, develop, and modify software systems, using scientific analysis and mathematical models to predict and measure outcome and consequences of design. |
| T0077 | Develop secure code and error handling. |
| T0100 | Evaluate factors such as reporting formats required, cost constraints, and need for security restrictions to determine hardware configuration. |
| T0111 | Identify basic common coding flaws at a high level. |
| T0117 | Identify security implications and apply methodologies within centralized and decentralized environments across the enterprise’s computer systems in software development. |
| T0118 | Identify security issues around steady state operation and management of software and incorporate security measures that must be taken when a product reaches its end of life. |
| T0171 | Perform integrated quality assurance testing for security functionality and resiliency attack. |
| T0176 | Perform secure programming and identify potential flaws in codes to mitigate vulnerabilities. |
| T0181 | Perform risk analysis (e.g., threat, vulnerability, and probability of occurrence) whenever an application or system undergoes a major change. |
| T0189 | Prepare detailed workflow charts and diagrams that describe input, output, and logical operation, and convert them into a series of instructions coded in a computer language. |
| T0217 | Address security implications in the software acceptance phase including completion criteria, risk acceptance and documentation, common criteria, and methods of independent testing. |
| T0228 | Store, retrieve, and manipulate data for analysis of system capabilities and requirements. |
| T0236 | Translate security requirements into application design elements including documenting the elements of the software attack surfaces, conducting threat modeling, and defining any specific security criteria. |
| T0267 | Design countermeasures and mitigations against potential exploitations of programming language weaknesses and vulnerabilities in system and elements. |
| T0303 | Identify and leverage the enterprise-wide version control system while designing and developing secure applications. |
| T0311 | Consult with customers about software system design and maintenance. |
| T0324 | Direct software programming and development of documentation. |
| T0337 | Supervise and assign work to programmers, designers, technologists and technicians, and other engineering and scientific personnel. |
| T0416 | Enable applications with public keying by leveraging existing public key infrastructure (PKI) libraries and incorporating certificate management and encryption functionalities when appropriate. |
| T0417 | Identify and leverage the enterprise-wide security services while designing and developing secure applications (e.g., Enterprise PKI, Federated Identity server, Enterprise Antivirus solution) when appropriate. |
| T0436 | Conduct trial runs of programs and software applications to ensure that the desired information is produced, and instructions and security levels are correct. |
| T0455 | Develop software system testing and validation procedures, programming, and documentation. |
| T0500 | Modify and maintain existing software to correct errors, to adapt it to new hardware, or to upgrade interfaces and improve performance. |
| T0553 | Apply cybersecurity functions (e.g., encryption, access control, and identity management) to reduce exploitation opportunities. |
| T0554 | Determine and document software patches or the extent of releases that would leave software vulnerable. |

# 12.9 Systems Requirements Planner (SP-SRP-001)

Consults with customers to evaluate functional requirements and translate functional requirements into technical solutions.

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| ID | Task |
| T0033 | Conduct risk analysis, feasibility study, and/or trade-off analysis to develop, document, and refine functional requirements and specifications. |
| T0039 | Consult with customers to evaluate functional requirements. |
| T0045 | Coordinate with systems architects and developers, as needed, to provide oversight in the development of design solutions. |
| T0052 | Define project scope and objectives based on customer requirements. |
| T0062 | Develop and document requirements, capabilities, and constraints for design procedures and processes. |
| T0127 | Integrate and align information security and/or cybersecurity policies to ensure that system analysis meets security requirements. |
| T0156 | Oversee and make recommendations regarding configuration management. |
| T0174 | Perform needs analysis to determine opportunities for new and improved business process solutions. |
| T0191 | Prepare use cases to justify the need for specific information technology (IT) solutions. |
| T0235 | Translate functional requirements into technical solutions. |
| T0273 | Develop and document supply chain risks for critical system elements, as appropriate. |
| T0300 | Develop and document User Experience (UX) requirements including information architecture and user interface requirements. |
| T0313 | Design and document quality standards. |
| T0325 | Document a system’s purpose and preliminary system security concept of operations. |
| T0334 | Ensure that all systems components can be integrated and aligned (e.g., procedures, databases, policies, software, and hardware). |
| T0454 | Define baseline security requirements in accordance with applicable guidelines. |
| T0463 | Develop cost estimates for new or modified system(s). |
| T0497 | Manage the information technology (IT) planning process to ensure that developed solutions meet customer requirements. |

# 12.10 Systems Security Analyst (OM-ANA-001)

Responsible for the analysis and development of the integration, testing, operations, and maintenance of systems security.

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| ID | Task |
| T0015 | Apply security policies to applications that interface with one another, such as Business-to-Business (B2B) applications. |
| T0016 | Apply security policies to meet security objectives of the system. |
| T0017 | Apply service-oriented security architecture principles to meet organization’s confidentiality, integrity, and availability requirements. |
| T0085 | Ensure all systems security operations and maintenance activities are properly documented and updated as necessary. |
| T0086 | Ensure that the application of security patches for commercial products integrated into system design meet the timelines dictated by the management authority for the intended operational environment. |
| T0088 | Ensure that cybersecurity-enabled products or other compensating security control technologies reduce identified risk to an acceptable level. |
| T0123 | Implement specific cybersecurity countermeasures for systems and/or applications. |
| T0128 | Integrate automated capabilities for updating or patching system software where practical and develop processes and procedures for manual updating and patching of system software based on current and projected patch timeline requirements for the operational environment of the system. |
| T0169 | Perform cybersecurity testing of developed applications and/or systems. |
| T0177 | Perform security reviews, identify gaps in security architecture, and develop a security risk management plan. |
| T0187 | Plan and recommend modifications or adjustments based on exercise results or system environment. |
| T0194 | Properly document all systems security implementation, operations, and maintenance activities and update as necessary. |
| T0202 | Provide cybersecurity guidance to leadership. |
| T0205 | Provide input to the Risk Management Framework process activities and related documentation (e.g., system life-cycle support plans, concept of operations, operational procedures, and maintenance training materials). |
| T0243 | Verify and update security documentation reflecting the application/system security design features. |
| T0309 | Assess the effectiveness of security controls. |
| T0344 | Assess all the configuration management (change configuration/release management) processes. |
| T0462 | Develop procedures and test fail-over for system operations transfer to an alternate site based on system availability requirements. |
| T0469 | Analyze and report organizational security posture trends. |
| T0470 | Analyze and report system security posture trends. |
| T0475 | Assess adequate access controls based on principles of least privilege and need-to-know. |
| T0477 | Ensure the execution of disaster recovery and continuity of operations. |
| T0485 | Implement security measures to resolve vulnerabilities, mitigate risks, and recommend security changes to system or system components as needed. |
| T0489 | Implement system security measures in accordance with established procedures to ensure confidentiality, integrity, availability, authentication, and non-repudiation. |
| T0492 | Ensure the integration and implementation of Cross-Domain Solutions (CDS) in a secure environment. |
| T0499 | Mitigate/correct security deficiencies identified during security/certification testing and/or recommend risk acceptance for the appropriate senior leader or authorized representative. |
| T0504 | Assess and monitor cybersecurity related to system implementation and testing practices. |
| T0508 | Verify minimum security requirements are in place for all applications. |
| T0526 | Provides cybersecurity recommendations to leadership based on significant threats and vulnerabilities. |
| T0545 | Work with stakeholders to resolve computer security incidents and vulnerability compliance. |
| T0548 | Provide advice and input for Disaster Recovery, Contingency, and Continuity of Operations Plans. |

# 12.11 Vulnerability Assessment Analyst (PR-VAM-001)

Performs assessments of systems and networks within the NE or enclave and identifies where those systems/networks deviate from acceptable configurations, enclave policy, or local policy. Measures effectiveness of defense-in-depth architecture against known vulnerabilities.

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| ID | Task |
| T0010 | Analyze organization’s cyber defense policies and configurations and evaluate compliance with regulations and organizational directives. |
| T0028 | Conduct and/or support authorized penetration testing on enterprise network assets. |
| T0138 | Maintain deployable cyber defense audit toolkit (e.g., specialized cyber defense software and hardware) to support cyber defense audit missions. |
| T0142 | Maintain knowledge of applicable cyber defense policies, regulations, and compliance documents specifically related to cyber defense auditing. |
| T0188 | Prepare audit reports that identify technical and procedural findings and provide recommended remediation strategies/solutions. |
| T0252 | Conduct required reviews as appropriate within environment (e.g., Technical Surveillance, Countermeasure Reviews [TSCM], TEMPEST countermeasure reviews). |
| T0549 | Perform technical (evaluation of technology) and nontechnical (evaluation of people and operations) risk and vulnerability assessments of relevant technology focus areas (e.g., local computing environment, network and infrastructure, enclave boundary, supporting infrastructure, and applications). |
| T0550 | Make recommendations regarding the selection of cost-effective security controls to mitigate risk (e.g., protection of information, systems and processes). |

# 13. SSDF Background Material

## Note: This material is extracted from the NIST SSDF documentation. It is included here for reference only.

The NIST Secure Software Development Framework (**SSDF**) provides a more general approach which calls out numerous practices and provides references to the applicable standards. SSDF’s groups are:

* [Prepare the Organization](#_13.1_Prepare_the) (PO)
* [Protect Software](#_13.2_Protect_Software) (PS)
* [Produce Well-Secured Software](#_13.3_Produce_Well-Secured) (PW)
* [Respond to Vulnerability Reports](#_13.4_Respond_to) (RV)

Within each of these are multiple practices and tasks.

# 13.1 Prepare the Organization (PO) Practices

Predecessor: N/A

Successor: [Protect Software (PS) Practices](#_13.2_Protect_Software)

## Define Security Requirements for Software Development (PO.1)

Ensure security requirements for software development are known at all times so they can be taken into account throughout the SDLC, and duplication of effort can be minimized because the requirements information can be collected once and shared. This includes requirements from internal sources, such as the organization’s policies, business objectives, and risk management strategy, and external sources, such as applicable laws and regulations.

## Implement Roles and Responsibilities (PO.2)

Ensure everyone inside and outside the organization involved in the SDLC is prepared to perform their SSDF-related roles and responsibilities throughout the SDLC.

## Implement a Supporting Toolchain (PO.3)

Use automation to reduce the human effort needed and improve the accuracy, consistency, and comprehensiveness of security practices throughout the SDLC, as well as a way to document and demonstrate use of these practices without significant additional effort or expense.

## Define Criteria for Software Security Checks (PO.4)

Help ensure the software resulting from the SDLC meets the organization’s expectations by defining criteria for checking the software’s security during development.

**Note:** PO.4 applies to both the foundation and requirements phases

# 13.2 Protect Software (PS) Practices

Predecessor: [Prepare the Organization (PO) Practices](#_13.1_Prepare_the)

Successor: [Produce Well-Secured Software (PW) Practices](#_13.3_Produce_Well-Secured)

## Protect All Forms of Code from Unauthorized Access and Tampering (PS.1)

Help prevent unauthorized changes to code, both inadvertent and intentional, which could circumvent or negate the intended security characteristics of the software. For code not intended to be publicly accessible, it helps prevent theft of the software and makes it more difficult for attackers to find vulnerabilities in the software.

**Note:** PS.1 should be in the foundation phase

## Provide a Mechanism for Verifying Software Release Integrity (PS.2)

Help software consumers ensure the software they acquire is legitimate and has not been tampered with.

**Note:** PS.2 should be in the foundation phase

## Archive and Protect Each Software Release (PS.3)

Helps identify, analyze, and eliminate vulnerabilities discovered in the software after release.

**Note:** PS.3 should be in the foundation phase

# 13.3 Produce Well-Secured Software (PW) Practices

Predecessor: [Protect Software (PS) Practices](#_13.2_Protect_Software)

Successor: [Respond to Vulnerability Reports (RV) Practices](#_13.4_Respond_to)

## Take Security Requirements and Risk Information into Account During Software Design (PW.1)

Determine which security requirements the software’s design should meet and determine what security risks the software is likely to face during production operation and how those risks should be mitigated by the software’s design. Addressing security requirements and risks during software design instead of later helps to make software development more efficient.

**Note:** PW.1 applies to the design phase

## Review the Software Design to Verify Compliance with Security Requirements and Risk Information (PW.2)

Help ensure the software will meet the security requirements and satisfactorily address the identified risk information.

**Note:** PW.2 applies to the design phase

## Verify Third-Party Software Compiles with Security Requirements (PW.3)

Reduce the risk associated with using acquired software modules and services, which are potential sources of additional vulnerabilities.

**Note:** PW.3 applies to the design phase

## Reuse Existing, Well-Secured Software When Feasible Instead of Duplicating Functionality (PW.4)

Lower the costs of software development, expedite software development, and decrease the likelihood of introducing additional security vulnerabilities into the software. These are particularly true for software that implements security functionality, such as cryptographic modules and protocols.

**Note:** PW.4 applies to the implementation phase

## Create Source Code Adhering to Secure Coding Practice (PW.5)

Decrease the number of security vulnerabilities in the software and reduce costs by eliminating vulnerabilities during source code creation.

**Note:** PW.5 applies to the implementation phase

## Configure the Compilation and Build Process to Improve Executable Security (PW.6)

Decrease the number of security vulnerabilities in the software and reduce costs by eliminating vulnerabilities before testing occurs.

**Note:** PW.6 applies to the implementation phase

## Review and/or Analyze Human-Readable Code to Identify Vulnerabilities and Verify Compliance with Security Requirements (PW.7)

Help identify vulnerabilities before software is released so they can be corrected before release, which prevents exploitation. Using automated methods lowers the effort and resources needed to detect vulnerabilities. Human-readable code is source code and any other form of code an organization deems as human readable.

**Note:** PW.7 applies to the implementation phase

## Test Executable Code to Identify Vulnerabilities and Verify Compliance with Security Requirements (PW.8)

Help identify vulnerabilities before software is released so they can be corrected before release, which prevents exploitation. Using automated methods lowers the effort and resources needed to detect vulnerabilities. Executable code is binaries, directly executed bytecode, directly executed source code, and any other form of code an organization deems as executable.

**Note:** PW.8 applies to the verification phase

## Configure the Software to Have Secure Settings by Default (PW.9)

Help improve the security of the software at installation time, which reduces the likelihood of the software being deployed with weak security settings that would put it at greater risk of compromise.

**Note:** PW.9 applies to the implementation phase

# 13.4 Respond to Vulnerability Reports (RV) Practices

Predecessor: [Produce Well-Secured Software (PW) Practices](#_13.3_Produce_Well-Secured)

Successor: N/A

## Identify and Confirm Vulnerabilities on an Ongoing Basis (RV.1)

Help ensure vulnerabilities are identified more quickly so they can be remediated more quickly, reducing the window of opportunity for attackers.

## Assess and Prioritize the Remediation of all Vulnerabilities (RV.2)

Help ensure vulnerabilities are remediated as quickly as necessary, reducing the window of opportunity for attackers.

## Analyze Vulnerabilities to Identify Their Root Causes (RV.3)

Help reduce the frequency of vulnerabilities in the future.

# 14. MSSDL Background Material

## Note: This material is extracted from the Microsoft SDL documentation. It is included here for reference only.

The archetype for the SDL is the Microsoft SDL (**MSSDL**). It is visualized as follow:

A picture containing sitting, player, green, ball

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Figure - MS SDL Lifecycle

The seven phases are:

* Training
* Requirements
* Design
* Implementation
* Verification
* Release
* Response

These are performed in a cyclic fashion where phases 2 through 6 are performed in epicycles (sprints) within the overall cycle (releases).

# 15. ISO/SAE 21434 Background Material

## Note: Summary material regarding ISO/SAE 21434 can be found external to this document.

**Road Vehicles - Cybersecurity Engineering** is intended to address the cybersecurity aspects of electrical and electronic (E/E) systems within road vehicles. Its goal is to enable organizations to:

* define cybersecurity policies and processes
* manage cybersecurity risk
* foster a cybersecurity culture

The following clauses are within the scope of the ***AVCDL***:

* Continuous Cybersecurity Activities (8)
* Concept (9)
* Product Development (10)
* Cybersecurity Validation (11)
* Production (12)
* Operations and Maintenance (13)
* End of Cybersecurity Support and Decommissioning (14)

The following clauses are not within the scope of the ***AVCDL***:

* Cybersecurity Management
  + Organizational Cybersecurity Management (5)
  + Project Dependent Cybersecurity Management (6)
* Distributed Cybersecurity Activities (7)
* Threat Analysis and Risk Assessments Methods (15)

# 16. Reference Documents

This section contains a description of the reference documents relating to the ***AVCDL***.

## 16.1 Standards

1. **Cybersecurity Maturity Model Certification (CMMC)**  
   [**https://www.acq.osd.mil/cmmc/docs/CMMC\_ModelMain\_V1.02\_20200318.pdf**](https://www.acq.osd.mil/cmmc/docs/CMMC_ModelMain_V1.02_20200318.pdf)
2. **Systems and software engineering - Software life cycle processes**  
   [**https://en.wikipedia.org/wiki/ISO/IEC\_12207**](https://en.wikipedia.org/wiki/ISO/IEC_12207)
3. **Systems and software engineering - System life cycle processes**  
   [**https://en.wikipedia.org/wiki/ISO/IEC\_15288**](https://en.wikipedia.org/wiki/ISO/IEC_15288)
4. **Road Vehicles – Cybersecurity Engineering**[**https://www.sae.org/standards/content/iso/sae21434/**](https://www.sae.org/standards/content/iso/sae21434/)
5. **Systems Security Engineering - Capability Maturity Model (SSE-CMM)**  
   [**https://www.iso.org/standard/44716.html**](https://www.iso.org/standard/44716.html)
6. **Microsoft Security Development Lifecycle (SDL) - simplified implementation**  
   [**http://download.microsoft.com/download/F/7/D/F7D6B14F-0149-4FE8-A00F-0B9858404D85/Simplified Implementation of the SDL.doc**](http://download.microsoft.com/download/F/7/D/F7D6B14F-0149-4FE8-A00F-0B9858404D85/Simplified%20Implementation%20of%20the%20SDL.doc)
7. **NHTSA Cybersecurity Best Practices for the Safety of Modern Vehicles**  
   [**https://www.nhtsa.gov/staticfiles/nvs/pdf/812333\_CybersecurityForModernVehicles.pdf**](https://www.nhtsa.gov/staticfiles/nvs/pdf/812333_CybersecurityForModernVehicles.pdf)
8. **Guidelines for the Creation of Interoperable Software Identification (SWID) Tags**  
   [**https://nvlpubs.nist.gov/nistpubs/ir/2016/NIST.IR.8060.pdf**](https://nvlpubs.nist.gov/nistpubs/ir/2016/NIST.IR.8060.pdf)
9. **Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations**  
   [**https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-171r2.pdf**](https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-171r2.pdf)
10. **NICE Cybersecurity Workforce Framework (NCWF)**  
    [**https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-181r1.pdf**](https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-181r1.pdf)
11. **Secure Software Development Framework (SSDF)**  
    [**https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-218-draft.pdf**](https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-218-draft.pdf)
12. **Static Analysis Results Interchange Format (SARIF)**  
    [**https://docs.oasis-open.org/sarif/sarif/v2.0/csprd02/sarif-v2.0-csprd02.pdf**](https://docs.oasis-open.org/sarif/sarif/v2.0/csprd02/sarif-v2.0-csprd02.pdf)
13. **Systems Engineering Capability Maturity Model (CMM)**  
    [**https://resources.sei.cmu.edu/asset\_files/TechnicalReport/1993\_005\_001\_16211.pdf**](https://resources.sei.cmu.edu/asset_files/TechnicalReport/1993_005_001_16211.pdf)
14. **Software Package Data Exchange (SPDX®​) Specification**  
    [**https://spdx.dev/wp-content/uploads/sites/41/2020/08/SPDX-specification-2-2.pdf**](https://spdx.dev/wp-content/uploads/sites/41/2020/08/SPDX-specification-2-2.pdf)
15. **Proposal for a Recommendation on Cyber Security**  
    [**https://unece.org/DAM/trans/doc/2019/wp29grva/ECE-TRANS-WP29-GRVA-2019-02e.pdf**](https://unece.org/DAM/trans/doc/2019/wp29grva/ECE-TRANS-WP29-GRVA-2019-02e.pdf)
16. **EVITA D2.3 Security requirements for automotive on-board networks based on dark-side scenarios**[**https://zenodo.org/record/1188418/files/EVITAD2.3v1.1.pdf?download=1**](https://zenodo.org/record/1188418/files/EVITAD2.3v1.1.pdf?download=1)

## 16.2 Secondary Documents

## All secondary documents as named below are located relative to this file in the following folder:

## ./reference\_documents/secondary\_documents

### General Information

AVCDL Phase Requirement Product ISO 21434 Work Product Fulfillment Summary [[PDF]](reference_documents/secondary_documents/AVCDL%20Phase%20Requirement%20Product%20ISO%2021434%20Work%20Product%20Fulfillment%20Summary.pdf)

AVCDL Phase Requirement Product ISO 26262 Work Product Fulfillment Summary [[PDF]](reference_documents/secondary_documents/AVCDL%20Phase%20Requirement%20Product%20ISO%2026262%20Work%20Product%20Fulfillment%20Summary.pdf)

Ranked / Risked Threat Report [[PDF]](reference_documents/secondary_documents/Ranked%20-%20Risked%20Threat%20Report.pdf)

Threat Report [[PDF]](reference_documents/secondary_documents/Threat%20Report.pdf)

Understanding the Phase Product Dependencies Graph [[PDF]](reference_documents/secondary_documents/Understanding%20the%20Phase%20Product%20Dependencies%20Graph.pdf)

Understanding Workflow Graphs [[PDF]](reference_documents/secondary_documents/Understanding%20Workflow%20Graphs.pdf)

### [Foundation Phase](#_Philosophy)

Code Protection Plan [[PDF]](reference_documents/secondary_documents/Code%20Protection%20Plan.pdf)

Cybersecurity Monitoring Plan [[PDF]](reference_documents/secondary_documents/Cybersecurity%20Monitoring%20Plan.pdf)

Cybersecurity Requirements Catalog [[PDF]](reference_documents/secondary_documents/cybersecurity_requirement_catalog.pdf)

Decommissioning Plan [[PDF]](reference_documents/secondary_documents/Decommissioning%20Plan.pdf)

Deployment Plan [[PDF]](reference_documents/secondary_documents/Deployment%20Plan.pdf)

Global Security Goals [[PDF]](reference_documents/secondary_documents/Global%20Security%20Goals.pdf)

Global Security Requirements [[PDF]](reference_documents/secondary_documents/Global%20Security%20Requirements.pdf)

Incident Response Plan [[PDF]](reference_documents/secondary_documents/Incident%20Response%20Plan.pdf)

List of Approved Tools and Components [[PDF]](reference_documents/secondary_documents/List%20of%20Approved%20Tools%20and%20Components.pdf)

Release Integrity Plan [[PDF]](reference_documents/secondary_documents/Release%20Integrity%20Plan.pdf)

Security Requirements Taxonomy [[PDF]](reference_documents/secondary_documents/Security%20Requirements%20Taxonomy.pdf)

System to Track Training Participation [[PDF]](reference_documents/secondary_documents/System%20to%20Track%20Training%20Participation.pdf)

Threat Prioritization Plan [[PDF]](reference_documents/secondary_documents/Threat%20Prioritization%20Plan.pdf)

Training Catalog [[PDF]](reference_documents/secondary_documents/Training%20Catalog.pdf)

### [Requirements Phase](#_Requirements_Phase)

Product-level Security Goals [[PDF]](reference_documents/secondary_documents/Product-level%20Security%20Goals.pdf)

Product-level Security Requirements [[PDF]](reference_documents/secondary_documents/Product-level%20Security%20Requirements.pdf)

Requirements Phase Gate [[PDF]](reference_documents/secondary_documents/Requirements%20Phase%20Gate.pdf)

### [Design Phase](#_Philosophy)

Attack Surface Analysis Report [[PDF]](reference_documents/secondary_documents/Attack%20Surface%20Analysis%20Report.pdf)

Design Phase Gate [[PDF]](reference_documents/secondary_documents/Design%20Phase%20Gate.pdf)

Design Showing Security Considerations [[PDF]](reference_documents/secondary_documents/Design%20Showing%20Security%20Considerations.pdf)

Security Design Review Report [[PDF]](reference_documents/secondary_documents/Security%20Design%20Review%20Report.pdf)

Threat Modeling Report [[PDF]](reference_documents/secondary_documents/Threat%20Modeling%20Report.pdf)

### [Implementation Phase](#_Philosophy)

Build Process Documentation [[PDF]](reference_documents/secondary_documents/Build%20Process%20Documentation.pdf)

Component / Version - Product / Version Cross-reference Document [[PDF]](reference_documents/secondary_documents/Component%20-%20Version%20-%20Product%20-%20Version%20Cross-reference%20Document.pdf)

Currently Used Deprecated Functions Document [[PDF]](reference_documents/secondary_documents/Currently%20Used%20Deprecated%20Functions%20Document.pdf)

Dynamic Analysis Report [[PDF]](reference_documents/secondary_documents/Dynamic%20Analysis%20Report.pdf)

Fuzz Testing Report [[PDF]](reference_documents/secondary_documents/Fuzz%20Testing%20Report.pdf)

Implementation Phase Gate [[PDF]](reference_documents/secondary_documents/Implementation%20Phase%20Gate.pdf)

List of Tools and Components Used [[PDF]](reference_documents/secondary_documents/List%20of%20Tools%20and%20Components%20Used.pdf)

Secure Code Review Summary [[PDF]](reference_documents/secondary_documents/Secure%20Code%20Review%20Summary.pdf)

Secure Development [[PDF]](reference_documents/secondary_documents/Secure%20Development.pdf)

Secure Settings Document [[PDF]](reference_documents/secondary_documents/Secure%20Settings%20Document.pdf)

Static Analysis Report [[PDF]](reference_documents/secondary_documents/Static%20Analysis%20Report.pdf)

### [Verification Phase](#_Philosophy)

Penetration Testing Report [[PDF]](reference_documents/secondary_documents/Penetration%20Testing%20Report.pdf)

Updated Attack Surface Analysis [[PDF]](reference_documents/secondary_documents/Updated%20Attack%20Surface%20Analysis.pdf)

Updated Threat Model [[PDF]](reference_documents/secondary_documents/Updated%20Threat%20Model.pdf)

Verification Phase Gate [[PDF]](reference_documents/secondary_documents/Verification%20Phase%20Gate.pdf)

### [Release Phase](#_Philosophy)

Archive Manifest [[PDF]](reference_documents/secondary_documents/Archive%20Manifest.pdf)

Final Security Review Report [[PDF]](reference_documents/secondary_documents/Final%20Security%20Review%20Report.pdf)

Release Phase Gate [[PDF]](reference_documents/secondary_documents/Release%20Phase%20Gate.pdf)

### [Operation Phase](#_Philosophy)

Cybersecurity Incident Report [[PDF]](reference_documents/secondary_documents/Cybersecurity%20Incident%20Report.pdf)

Software Deployment Report [[PDF]](reference_documents/secondary_documents/Software%20Deployment%20Report.pdf)

### [Decommissioning Phase](#_Philosophy)

Decommissioning Report [[PDF]](reference_documents/secondary_documents/Decommissioning%20Report.pdf)

### [Supplier](#_9.9_Supplier_Processes) Processes

Autonomous Vehicle Cybersecurity Manufacturer Disclosure Statement [[PDF]](reference_documents/secondary_documents/Autonomous%20Vehicle%20Cybersecurity%20Manufacturer%20Disclosure%20Statement.pdf)

Supplier Self-reported Maturity Assessment [[PDF]](reference_documents/secondary_documents/Supplier%20Self-reported%20Cybersecurity%20Maturity%20Assessment.pdf)

Cybersecurity Interface Agreement [[PDF]](reference_documents/secondary_documents/Cybersecurity%20Interface%20Agreement.pdf)

## 16.3 Working Material

## All working material spreadsheets as named below are located relative to this file in the following folder:

## ./reference\_documents/working\_material

AVCDL CMMC [[XSLX]](reference_documents/working_material/AVCDL_CMM_CMMC.xlsx)

AVCDL mappings [[XSLX]](reference_documents/working_material/AVCDL_mappings.xlsx)

AVCDL roles and responsibilities [[XSLX]](reference_documents/working_material/roles_and_responsibilities.xlsx)

## 16.4 Templates

## All templates as named below are located relative to this file in the following folder:

## ./reference\_documents/templates

AVCDL CMM progress template [[XSLX]](reference_documents/working_material/AVCDL_CMM_CMMC.xlsx)

AVCDL cybersecurity interface agreement summary template [[XSLX]](reference_documents/working_material/AVCDL_mappings.xlsx)

AVCDL Cybersecurity Interface Agreement template [[DOCX]](reference_documents/working_material/AVCDL_mappings.xlsx)

AVCDL vendor CMM template [[XSLX]](reference_documents/working_material/AVCDL_mappings.xlsx)

AVCMDS Worksheet template [[XSLX]](reference_documents/working_material/roles_and_responsibilities.xlsx)

# 17. Continuous Improvement Progress Summary Example

The following table shows a possible representation for tracking the maturity of the ***AVCDL*** implementation:



Table - Maturity Tracking Example

# 18. AVCDL Product Dependencies

The following diagrams shows the dependencies between the products from the AVCDL process requirements. These are presented as a dependency graph (reversed) using ISO standard flowchart symbols.

For more information regarding the interpretation of these diagrams, refer to the [**Understanding the Phase Product Dependencies Graph**](#understandingthephaseproductdependencies) secondary document.



Figure - AVCDL product dependencies – [foundation phase](#_Foundation_Phase_1)

Diagram

Description automatically generated

Figure - AVCDL product dependencies – [requirements phase](#_Requirements_Phase)



Figure - AVCDL product dependencies – [design phase](#_Design_Phase)



Figure - AVCDL product dependencies – [implementation phase](#_Implementation_Phase)



Figure - AVCDL product dependencies – [verification phase](#_9.5_Verification_Phase_1)

A picture containing diagram

Description automatically generated

Figure - AVCDL product dependencies – [release phase](#_Release_Phase)



Figure - AVCDL product dependencies – [operation phase](#_Operation_Phase)

A picture containing graphical user interface

Description automatically generated

Figure - AVCDL product dependencies – [decommissioning phase](#_Decommissioning_Phase)

# 19. AVCDL Training Path

The following figure shows the dependencies between the training associated with the ***AVCDL*** phase requirements. It is presented as a visual reference for assumed prior knowledge.

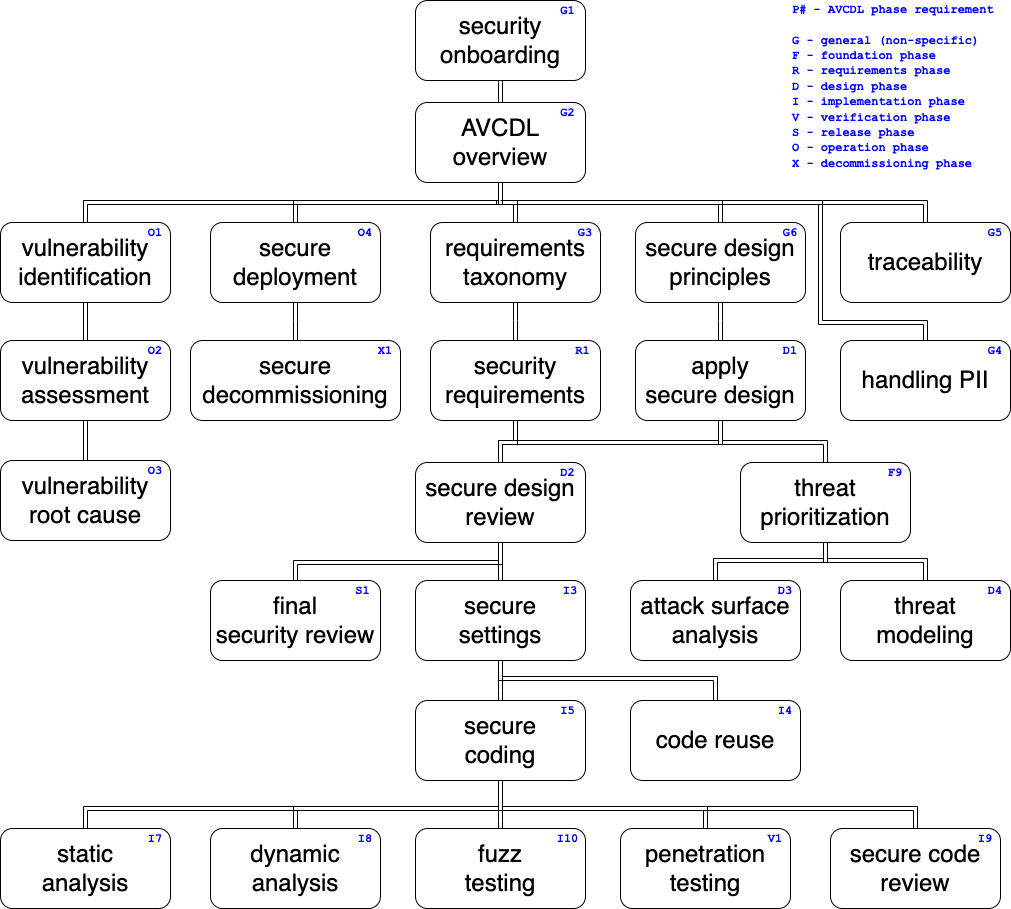


Figure - AVCDL Training Path