

# PP-Module for Endpoint Detection And Response (EDR)



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**National Information Assurance Partnership**

## Revision History

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| Version | Date       | Comment                |
|---------|------------|------------------------|
| 1.0     | 2020-10-23 | First version released |
| 2.0     | 2026-01-13 | CC:2022 conversion     |

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# 1 Introduction

## 1.1 Overview

The scope of this PP-Module is to describe the security functionality of an Endpoint Detection and Response (EDR) system in terms of [CC] and to define functional and assurance requirements for such products. This PP-Module is intended for use with the following Base-PPs:

- Protection Profile for Application Software [AppPP], Version 2.0.

This Base-PP is valid because an EDR is deployed as a software application on a general-purpose operating system.

## 1.2 Terms

The following sections list Common Criteria and technology terms used in this document.

### 1.2.1 Common Criteria Terms

|   |   |
|---|---|
| Assurance   | Grounds for confidence that a TOE meets the SFRs [CC].  |
| Base Protection Profile (Base-PP)                   | Protection Profile used as a basis to build a PP-Configuration.   |
| Collaborative Protection Profile (cPP)              | A Protection Profile developed by international technical communities and approved by multiple schemes.   |
| Common Criteria (CC)                                | Common Criteria for Information Technology Security Evaluation (International Standard ISO/IEC 15408).  |
| Common Criteria Testing Laboratory                  | Within the context of the Common Criteria Evaluation and Validation Scheme (CCEVS), an IT security evaluation facility accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and approved by the NIAP Validation Body to conduct Common Criteria-based evaluations. |
| Common Evaluation Methodology (CEM)                 | Common Evaluation Methodology for Information Technology Security Evaluation.   |
| Direct Rationale                                    | A type of Protection Profile, PP-Module, or Security Target in which the security problem definition (SPD) elements are mapped directly to the SFRs and possibly to the security objectives for the operational environment. There are no security objectives for the TOE.                  |
| Distributed TOE                                     | A TOE composed of multiple components operating as a logical whole.   |
| Extended Package (EP)                               | A deprecated document form for collecting SFRs that implement a particular protocol, technology, or functionality. See Functional Packages.   |
| Functional Package (FP)                             | A document that collects SFRs for a particular protocol, technology, or functionality.  |
| Operational Environment (OE)                        | Hardware and software that are outside the TOE boundary that support the TOE functionality and security policy.   |
| Protection Profile (PP)                             | An implementation-independent set of security requirements for a category of products.  |
| Protection Profile Configuration (PP-Configuration) | A comprehensive set of security requirements for a product type that consists of at least one Base-PP and at least one PP-Module.   |
| Protection Profile Module (PP-Module)               | An implementation-independent statement of security needs for a TOE type complementary to one or more Base-PPs.   |
| Security Assurance Requirement (SAR)                | A requirement to assure the security of the TOE.  |
| Security Functional Requirement (SFR)               | A requirement for security enforcement by the TOE.  |
| Security Target (ST)                                | A set of implementation-dependent security requirements for a specific product.   |

|                                  |   |
|----------------------------------|---|
| Target of Evaluation (TOE)       | The product under evaluation.                               |
| TOE Security Functionality (TSF) | The security functionality of the product under evaluation. |
| TOE Summary Specification (TSS)  | A description of how a TOE satisfies the SFRs in an ST.     |

### 1.2.2 Technical Terms

|  |  |
|--|--|
| Alert                                  | An event or notification on the management dashboard that highlights potentially unauthorized activity.  |
| Endpoint                               | A computing device that runs a general purpose OS, a mobile device OS, or network device OS. Endpoints can include desktops, servers, and mobile devices.  |
| Endpoint Detection and Response (EDR)  | Server software that analyzes collected EDR Host Agent data for detecting, investigating, and remediating unauthorized activities on endpoints. The terms <i>TOE</i> and <i>EDR</i> are interchangeable in this document.  |
| Endpoint Detection and Response System | The EDR server and the Host Agents they operate with.  |
| Enroll                                 | The act of registering an HA endpoint with the EDR.  |
| Host Agent                             | Complementary software that executes on endpoints to collect data about the endpoint and executes commands sent to the endpoint from an Enterprise Security Management (ESM) server or service. An example command sent to an endpoint could be to enforce a policy from an ESM, to collect some files, or to run an OS command. |
| Management Dashboard                   | A management interface for the configuration of EDR policy, visualization of collected endpoint alert data, and issuing of remediation commands.   |
| Potentially Unauthorized Activity      | This refers to the set of activities detected by the TOE, specific items detected may be unique to the TOE   |
| SOC Analyst                            | Security Operations Center (SOC) Analyst is typically the person responsible for reviewing potentially unauthorized activities via alerts and performing remediation and clean up.   |

## 1.3 Compliant Targets of Evaluation

An **EDR** is enterprise management software that collects endpoint host data to detect potentially unauthorized activity on endpoints and to enable threat hunting and other incident response actions to remediate malicious behaviors. These requirements cover basic security characteristics and behaviors for **EDR** products; the platform on which the **EDR** runs may be a physical or virtual Operating System (**OS**), and on-premises or in a cloud environment.

**EDR** products rely on additional software running on the endpoint, called the Host Agent, to communicate commands or policy changes and to receive endpoint host data. Security requirements for the Host Agent are addressed in the separate **PP-Module**. Evaluation of an **EDR** system will require evaluations of different system components consisting of **EDR** and . Each evaluation must satisfy the requirements in both the **EDR** and HA in addition to its **Base-PP** Application Software. Evaluation of an **EDR** system will require evaluation of different system components consisting of one **EDR** and at least one Host Agent. Therefore, the evaluation must claim conformance to a **PP-Configuration** that includes the **PP-Module** for Endpoint Detection and Response (**EDR**) and the **PP-Module** for Host Agent.

There are two primary architectural categories addressed by requirements in this **PP-Module**, as seen in Figure 1.

- Endpoints communicate over the Internet to an **EDR** hosted by a cloud service provider (Software as a Service).
- Endpoints communicate with an on-premises **EDR** in a hub and spoke network model.

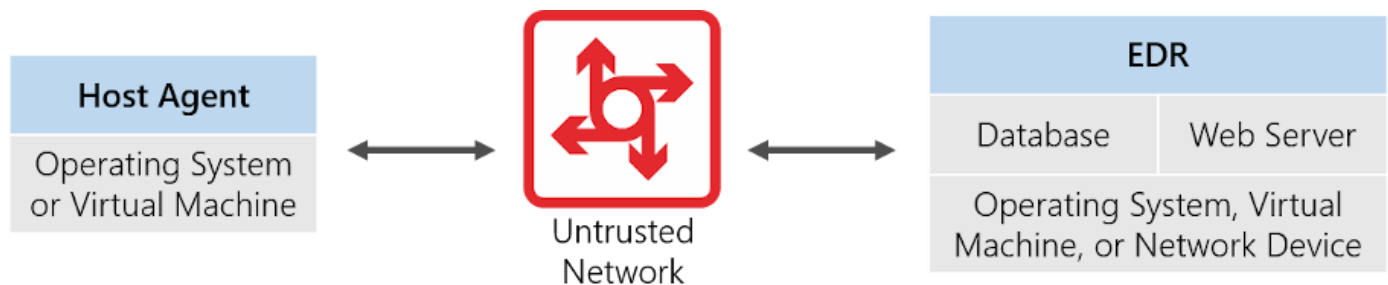


**Figure 1: Primary EDR Architectures**

### 1.3.1 TOE Boundary

The TOE boundary for the EDR encompasses all the software from the TOE vendor that represents the server or enterprise management side of the EDR system. This will typically, but not always, be software running behind a web application or dashboard, and possibly with other software services running to send and receive data with a Host Agent. The EDR may also make use of a database to store collected and analyzed data. Any database software itself is outside the scope of the TOE, as is any web server software used to serve a web application or dashboard, and the underlying operating system or cloud platform. The figure below shows EDR (right) communicating with its Host Agent (left) over an untrusted network.

The requirements for the Host Agent are not covered in this PP-Module, however it is expected that an ESM system will evaluate against a PP-Configuration that includes both the EDR PP-Module and the PP-Module.



**Figure 2: EDR and Host Agent Communications**

### 1.3.2 TOE Platform

The TOE platform, which consists of the OS or Cloud platform on which the EDR software executes, is outside the scope of evaluation. However, the security of the EDR relies upon it.

Any communications with trusted remote file reputation or threat intelligence services is relevant to overall EDR system security but is also outside the scope of evaluation.

## 1.4 Use Cases

Requirements in this PP-Module are designed to address the security problem for the following use cases. An EDR's functionality may be extended by add-ons, plug-ins, threat feeds, or other reputation services. These are out of scope of this PP-Module.

#### [USE CASE 1] Detection of Potential Unauthorized Activity

The detection of potentially unauthorized activity, software, or users is enabled by the collection of host-based endpoint data to a central EDR where the data is analyzed.

#### [USE CASE 2] Remediation of Malicious Activity

The ability to initiate remediation commands to attempt a clean up of detected malicious activity is a key use case of EDR.

#### [USE CASE 3] Discovery

The capability to effectively browse, query, and export aggregated host-based endpoint data enables a SOC analyst to discover adversaries in post-compromise scenarios.

## 2 Conformance Claims

### Conformance Statement

An ST must claim exact conformance to this PP-Module.

The evaluation methods used for evaluating the TOE are a combination of the workunits defined in [\[CEM\]](#) as well as the Evaluation Activities for ensuring that individual SERs and SARS have a sufficient level of supporting evidence in the Security Target and guidance documentation and have been sufficiently tested by the laboratory as part of completing ATE\_IND.1. Any functional packages this PP claims similarly contain their own Evaluation Activities that are used in this same manner.

### CC Conformance Claims

This PP-Module is conformant to Part 2 (extended) and Part 3 (extended) of Common Criteria CC:2022, Revision 1.

### PP Claim

This PP-Module does not claim conformance to any Protection Profile.

The following PPs and PP-Modules are allowed to be specified in a PP-Configuration with this PP-Module:

- Protection Profile for Application Software, Version 2.0
- PP-Module for Enterprise-Management (EM), Version 2.0
- PP-Module for Host Agent (HA), Version 2.0

### Package Claim

- This PP-Module is Functional Package for SSH, Version 2.0 conformant.
- This PP-Module is Functional Package for TLS, Version 2.1 conformant.
- This PP-Module is Functional Package for X.509, Version 1.0 conformant.
- This PP-Module does not conform to any assurance packages.

The functional packages to which the PP conforms may include SERs that are not mandatory to claim for the sake of conformance. An ST that claims one or more of these functional packages may include any non-mandatory SERs that are appropriate to claim based on the capabilities of the TSE and on any triggers for their inclusion based inherently on the SER selections made.

## 3 Security Problem Definition

The security problem is described in terms of the threats that the EDR is expected to address, assumptions about the OE, and any organizational security policies that the EDR is expected to enforce. These extend any threats, assumptions, and organizational security policies defined by the Base-PP.

### 3.1 Threats

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#### **T.CREDENTIAL\_REUSE**

An attacker is positioned on a communications channel or elsewhere on the network infrastructure. Attackers may guess or harvest legitimate credentials from the EDR, endpoints, or insecure network activity.

#### **T.MISCONFIGURATION**

An attacker is a legitimate privileged user with access to change the configuration of the EDR's security capabilities or is not a legitimate privileged user trying to access without proper authorization. Attackers may attempt to hide malicious activities from other privileged users.

### 3.2 Assumptions

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These assumptions are made on the Operational Environment (OE) in order to be able to ensure that the security functionality specified in the PP-Module can be provided by the TOE. If the TOE is placed in an OE that does not meet these assumptions, the TOE may no longer be able to provide all of its security functionality.

#### **A.CONNECTIVITY**

The TSF relies on network connectivity to carry out its management activities. The OE will provide reliable network connectivity for the EDR to operate. The EDR will robustly handle occasional instances when connectivity is unavailable or unreliable.

### 3.3 Organizational Security Policies

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An organization deploying the TOE is expected to satisfy the organizational security policy listed below in addition to all organizational security policies defined by the claimed Base-PP.

This document does not define any additional OSPs.



# 4 Security Objectives

## 4.1 Security Objectives for the Operational Environment

The OE of the T.OE implements technical and procedural measures to assist the T.OE in correctly providing its security functionality (which is defined by the security objectives for the T.OE). The security objectives for the OE consist of a set of statements describing the goals that the OE should achieve. This section defines the security objectives that are to be addressed by the IT domain or by non-technical or procedural means. The assumptions identified in Section 3 are incorporated as security objectives for the environment. The following security objectives for the Operational Environment assist the EDR in correctly providing its security functionality. These track with the assumptions about the environment.

**OE.RELIABLE\_TRANSIT**

Wired or wireless network traffic between the EDR and host agents will provide reasonably reliable connectivity.

## 4.2 Security Objectives Rationale

This section describes how the assumptions and organizational security policies map to operational environment security objectives.

Table 1: Security Objectives Rationale

| Assumption or OSP | Security Objectives | Rationale  |
|-------------------|---------------------|--|
| A.CONNECTIVITY    | OE.RELIABLE_TRANSIT | The OE objective OE.RELIABLE_TRANSIT is realized through A.CONNECTIVITY. |

# 5 Security Requirements

This chapter describes the security requirements which have to be fulfilled by the product under evaluation. Those requirements comprise functional components from Part 2 and assurance components from Part 3 of [CC]. The following conventions are used for the completion of operations:

- **Refinement** operation (denoted by **bold text** or ~~strickthrough text~~): Is used to add details to a requirement or to remove part of the requirement that is made irrelevant through the completion of another operation, and thus further restricts a requirement.
- **Selection** (denoted by *italicized text*): Is used to select one or more options provided by the [CC] in stating a requirement.
- **Assignment** operation (denoted by *italicized text*): Is used to assign a specific value to an unspecified parameter, such as the length of a password. Showing the value in square brackets indicates assignment.
- **Iteration** operation: Is indicated by appending the SFR name with a slash and unique identifier suggesting the purpose of the operation, e.g. "/EXAMPLE1."

## 5.1 Protection Profile for Application Software Security Functional Requirements Direction

In a PP-Configuration that includes [AppPP], the TOE is expected to rely on some of the security functions implemented by the application as a whole and evaluated against the Base-PP. The SFRs listed in this section are defined in the Base-PP and relevant to the secure operation of the EDR. This section describes any modifications that the ST author must make to the Base-PP SFRs to satisfy the required EDR functionality.

### 5.1.1 Modified SFRs

This PP-Module does not modify any SFRs defined by the App PP.

## 5.2 TOE Security Functional Requirements

The following section describes the SFRs that must be satisfied by any TOE that claims conformance to this PP-Module. These SFRs must be claimed regardless of which PP-Configuration is used to define the TOE.

### 5.2.1 Auditable Events for Mandatory SFRs

Table 2: Auditable Events for Mandatory Requirements

| Requirement        | Auditable Events    | Additional Audit Record Contents |
|--------------------|---------------------|----------------------------------|
| FAU_ALT_EXT.1      | No events specified | N/A                              |
| FAU_COL_EXT.1      | No events specified | N/A                              |
| FAU_GEN.1/EDR      | No events specified | N/A                              |
| FIA_AUT_EXT.1      | No events specified | N/A                              |
| FIA_PWD_EXT.1      | No events specified | N/A                              |
| FMT_SMF.1/ENDPOINT | No events specified | N/A                              |
| FMT_SMF.1/HOST     | No events specified | N/A                              |
| FMT_SMR.1          | No events specified | N/A                              |
| FMT_SRF_EXT.1      | No events specified | N/A                              |
| FPT_ITT.1          | No events specified | N/A                              |
| FTP_TRP.1          | No events specified | N/A                              |

### 5.2.2 Security Audit (FAU)

#### FAU\_ALT\_EXT.1 Server Alerts

FAU\_ALT\_EXT.1.1

The TSF shall alert authorized users on a management dashboard in the event of: detection of potentially unauthorized activity on enrolled endpoints.

**Application Note:** The intent of this requirement is to specify the minimum set of management dashboard alert capabilities the EDR must be capable of displaying to an authorized user.

Examples of detection of potentially unauthorized activity on enrolled endpoints include; anomalous activity, escalation of privileges, and lateral movement.

#### FAU\_ALT\_EXT.1.2

The TISF shall provide a visualization of detected alerts of potentially unauthorized incidents, and shall include:

- a. An initial incident severity and [selection: *assessment, categorization, score, ranking*],
- b. An incident timeline.

**Application Note:** The intent of this requirement is to specify the minimum set of incident visualizations the EDR must be capable of displaying to an authorized user. Visualization is broadly defined as the display of incident data to an authorized user on the management dashboard. The visualization is not required to be interactive.

#### FAU\_ALT\_EXT.1.3

The TISF shall provide a data export capability for selected alerts with a specified standards-based format of [selection:

- *Structured Threat Information expression (STIX)*
- *Cyber Observable expression (CybOX)*
- *Incident Object Description Exchange Format (IODEF)*
- *Common Event Format (CEF)*
- *Log Event Extended Format (LEEF)*

].

**Application Note:** The intent of this requirement is to specify a selection of standards-based formats the EDR must provide for the export of selected alerts, at least one must be selected.

### FAU\_COL\_EXT.1 Collected Endpoint Data

#### FAU\_COL\_EXT.1.1

The TISF shall collect the following minimum set of endpoint data from a Host Agent:

- a. Operating System (OS) version, architecture, and IP Address,
- b. Privileged and unprivileged endpoint account login activity,
- c. Process creation,
- d. Libraries and modules loaded by processes,
- e. Filenames and [selection: [assignment: *other metadata*], *no other metadata*] of files created and [selection: [assignment: *other activities performed to files*], *no other activities*] on persistent storage,
- f. [selection: [assignment: *other host data*], *no other host data*].

**Application Note:** The intent of this requirement is to specify the minimum set of endpoint data that the EDR must be capable of collecting. The assignments may be a single item or multiple items.

### FAU\_GEN.1/EDR Audit Data Generation

#### FAU\_GEN.1.1/EDR

The TISF shall be able to generate audit data of the following auditable events:

- a. ~~Start-up and shutdown of the audit functions;~~
- b. All auditable events for the [not specified] level of audit;

[

- a. EDR management dashboard log in activity;
- b. Remediation commands sent to a Host Agent, affected endpoint, or network devices;
- c. EDR configuration changes;
- d. Change in Host Agent enrollment status;
- e. [assignment: *Other auditable events*]

].

**Application Note:** The intent of this requirement is to specify the minimum set of audit data generated about actions on the EDR. Changes made to configuration files at the OS level will be audited by the OS and are not covered by this requirement.

#### FAU\_GEN.1.2/EDR

The TISF shall record within the audit data at least the following information:

- a. date and time of the event,
- b. type of event,
- c. subject identity (if applicable),
- d. and the outcome (success or failure) of the event,
- e. For each auditable event type, based on the auditable event definitions of the functional components included in the PP, PP-Module, functional package, or ST, [assignment: other audit relevant information].

**Application Note:** This requirement outlines the information to be included in audit data. All audits must contain at least the information mentioned in FAU\_GEN.1.2/EDR, but may contain more information which can be assigned.

### 5.2.3 Identification and Authentication (FIA)

#### FIA\_AUT\_EXT.1 Dashboard Authentication Mechanisms

FIA\_AUT\_EXT.1.1

The TSF shall [selection:

- leverage the platform for authentication
- provide authentication based on username/password and [selection:
  - authentication with external smart card and PIN
  - no other factors

]

] to support logins to any management dashboard or API.

**Application Note:** The selection specifies if Smartcards are also supported, one selection must be made.

#### FIA\_PWD\_EXT.1 Password Authentication

FIA\_PWD\_EXT.1.1

The TSF shall support the following for the Password Authentication Factor:

1. Passwords shall be able to be composed of any combination of [selection: upper and lower case letters, [assignment: a character set of at least 52 characters]], numbers, and special characters: [selection: "!", "@", "#", "\$", "%", "^", "&", "\*", "(", ")", [assignment: other characters]],
2. Password length up to [assignment: an integer greater than or equal to 64] characters shall be supported.

**Application Note:** The ST author selects the character set: either the upper and lower case Basic Latin letters or another assigned character set containing at least 52 characters. The assigned character set must be well defined: either according to an international encoding standard (such as Unicode) or defined in the assignment by the ST author. The ST author also selects the special characters that are supported by the TOE; they may optionally list additional special characters supported using the assignment.

### 5.2.4 Security Management (FMT)

#### FMT\_SMF.1/ENDPOINT Specification of Management Functions (EDR Management of EDR)

FMT\_SMF.1.1/ENDPOINT

The TSF shall be capable of performing the following management functions:

**Table 3: Management Functions**

[Status Markers:  
M - Mandatory  
O - Optional or Objective  
- - Not Applicable

| # | Management Function  | Administrator | SOC Analyst | Read-Only User |
|---|--|---------------|-------------|----------------|
| 1 | Configure the amount of time to retain data collected by the EDR [assignment: time frame to retain data] | M             | O           | -              |
| 2 | Obtain or display the connectivity status of a Host Agent  | M             | O           | O              |

|   |   |          |          |   |
|---|---|----------|----------|---|
| 3 | Define a configurable list of [ <b>selection:</b> <i>filenames, folders, file hashes</i> , [ <b>assignment:</b> <i>other factors</i> ]]   | <u>O</u> | <u>M</u> | - |
| 4 | Configure visual suppression of incident alerts based on a configurable list of [ <b>selection:</b> <i>filenames, folders, file hashes</i> , [ <b>assignment:</b> <i>other factors</i> ]] | <u>O</u> | <u>M</u> | - |

].

**Application Note:** This requirement captures all the configuration functionality the TSE provides the administrator to configure the EDR. Both configurable lists mentioned in the table, above, are intended to match one another.

## FMT\_SMF.1/HOST Specification of Management Functions (EDR Management of Host Agent)

FMT\_SMF.1.1/HOST

The TSE shall be capable of performing the following management functions **that control behavior of the Host Agent**:

**Table 4: Management Functions**

[Status Markers:  
M - Mandatory  
O - Optional or Objective  
- - Not Applicable

| # | Management Function  | Administrator | SOC Analyst | Read-Only User |
|---|--|---------------|-------------|----------------|
| 5 | Configure the frequency for sending Host Agent data to the <u>EDR</u> [ <b>assignment:</b> <i>list of configurable frequencies</i> ] | <u>M</u>      | <u>O</u>    | -              |
| 6 | Assign a label or tag to categorize or group individual endpoint systems   | <u>M</u>      | <u>O</u>    | -              |

].

**Application Note:** This requirement captures all the configuration functionality the EDR provides the administrator to configure the EDR Host Agents. The frequency for sending data to the EDR can be specified as a time value, but does not have to be. A value like Aggressive, Normal, Low Bandwidth is a measure of control of frequency and meets the requirement. For EDR products, some management is performed through a product's configuration files stored at the OS level. In these cases, the OS administrator can be considered the administrator of the TOE.

## FMT\_SMR.1 Security Management Roles

FMT\_SMR.1.1

The TSE shall maintain the roles [*administrator, SOC analyst, read-only user*].

FMT\_SMR.1.2

The TSE shall be able to associate users with roles.

**Application Note:** The EDR will be configured, maintained, and used by different user roles. At a minimum, one administrative role shall be supported, one SOC analyst who can issue remediation commands to host agents, and one read-only user who can only view data.

The user accounts need not be named literally, but they must have the implication of such roles.

CC Part 2 specifies FIA\_UID.1 as a dependency of this requirement because the TSE must have some way of identifying users so that they can be associated with management roles. This dependency is implicitly addressed through [FIA\\_AUT\\_EXT.1](#), which specifies an alternative method of user identification.

## FMT\_SRF\_EXT.1 Specification of Remediation Functions

FMT\_SRF\_EXT.1.1

The TSE shall be capable of performing the following remediation functions:

**Table 5: Management Functions**

[Status Markers:  
M - Mandatory

O - Optional or Objective  
 - - Not Applicable

| # | Management Function   | Administrator | SOC Analyst | Read-Only User |
|---|---|---------------|-------------|----------------|
| 7 | Quarantine an endpoint by [selection: <i>logically quarantining the endpoint from the network unless allowlisted, quarantining the malicious file on the endpoint</i> ] | O             | M           | -              |
| 8 | Terminate a running process on an endpoint  | O             | M           | -              |
| 9 | Retrieve potentially unauthorized or affected files from an endpoint  | O             | O           | -              |

].

**Application Note:** This requirement captures all the remediation functionality the EDR provides the SOC Analyst and optionally the Administrator.

Logically quarantine from the network refers to restricting communications from the endpoint to the rest of the network, it may include a restricted allowlist.

Any function that is not mandatory for at least one role is considered optional for the TOE.

## 5.2.5 Protection of the TSF (FPT)

### FPT\_ITT.1 Basic Internal TSF Data Transfer Protection

#### FPT\_ITT.1.1

The EDR shall [selection:

- *implement [selection: TLS as defined in the TLS Package, HTTPS as defined in the Base-PP]*
- *invoke platform-provided functionality for [selection: TLS, HTTPS]*

] to protect TSF data from [modification, disclosure] when it is transmitted between separate parts of the TOE.

**Application Note:** The intent of the above requirement is to use the cryptographic protocols identified in the requirement to establish and maintain a trusted channel between the EDR and the Host Agent, which are considered to be separate parts of the TOE. The TLS Package permits the use of either TLS or DTLS. Only TLS, DTLS, or HTTPS can be used in this trusted channel.

This requirement is to ensure that the transmission of any logs, process lists, system information, etc, when commanded, or at configurable intervals, is properly protected. This internal channel also protects any commands and policies sent by the EDR to the Host Agent. Either the Host Agent or the EDR is able to initiate the connection.

This internal channel protects both the connection between an enrolled Host Agent and the EDR and the connection between an unenrolled Host Agent and the EDR during the enrollment operation. Different protocols can be used for these two connections, and the description in the TSS should make this difference clear.

The internal channel uses a protocol from the TLS Package or HTTPS as the protocol that preserves the confidentiality and integrity of EDR communications. The ST author chooses the mechanism or mechanisms supported by the EDR, and then ensures the correct requirements are included in the ST if not already present. Protocol, RBG, certificate validation, algorithm, and similar services may be met with platform-provided services.

## 5.2.6 Trusted Path/Channels (FTP)

### FTP\_TRP.1 Trusted Path

#### FTP\_TRP.1.1

The TSF shall [selection:

- *implement [selection: TLS as defined in the TLS Package, HTTPS as defined in the Base-PP]*
- *invoke platform-provided functionality for [selection: TLS, HTTPS]*

] to provide a communication path between itself and [remote] administrators that is logically distinct from other communication paths and provides assured identification of its end points and protection of the communicated data from [modification, disclosure].

#### FTP\_TRP.1.2

The **TSE** shall [selection: **implement functionality, invoke platform-provided functionality**] to permit [remote **administrators**] to initiate communication via the trusted path.

FTP\_TRP.1.3

The **TSE** shall [selection: **implement functionality, invoke platform-provided functionality**] to require the use of the trusted path for [all remote administration actions].

**Application Note:** This requirement ensures that authorized remote administrators initiate all communication with the **EDR** via a trusted path, and that all communications with the **EDR** by remote administrators is performed over this path. The data passed in this trusted communication channel are encrypted as defined in the protocol chosen in the first selection. The **ST** author chooses the mechanism or mechanisms supported by the **EDR**.

## 5.3 TOE Security Functional Requirements Rationale

The following rationale provides justification for each **SER** for the **TOE**, showing that the **SERs** are suitable to address the specified threats:

Table 6: **SER** Rationale

| Threat             | Addressed by              | Rationale   |
|--------------------|---------------------------|---|
| T.CREDENTIAL_REUSE | FPT_ITT.1                 | The <b>PP-Module</b> includes <b>FPT_ITT.1</b> to define the internal trusted channel that the <b>TSE</b> uses to communicate with connected Host Agents as well as the communications protocols used to establish these trusted channels.                        |
|                    | FTP_TRP.1                 | The <b>PP-Module</b> includes <b>FTP_TRP.1</b> to define the communications protocols used to support secure remote administration of the <b>TSE</b> .  |
| T.MISCONFIGURATION | FAU_ALT_EXT.1             | The <b>PP-Module</b> includes <b>FAU_ALT_EXT.1</b> to facilitate management by providing a function for authorized users to interact with security-relevant data that is provided to the <b>TSE</b> .   |
|                    | FAU_COL_EXT.1             | The <b>PP-Module</b> includes <b>FAU_COL_EXT.1</b> to facilitate management by defining the security-relevant data that is collected by the <b>TSE</b> .  |
|                    | FAU_GEN.1/EDR             | The <b>PP-Module</b> includes <b>FAU_GEN.1/EDR</b> to ensure that the <b>TOE</b> provides accountability through the generation of audit data for security-relevant events.   |
|                    | FIA_AUT_EXT.1             | The <b>PP-Module</b> includes <b>FIA_AUT_EXT.1</b> to define how management users are authenticated by the <b>TSE</b> to limit the subjects that can execute management functions on the <b>TOE</b> .   |
|                    | FIA_PWD_EXT.1             | The <b>PP-Module</b> includes <b>FIA_PWD_EXT.1</b> to define composition requirements for the Password Authentication Factor to ensure that an authorized user cannot access protected management functions without authorization.                                |
|                    | FMT_SMF.1/ENDPOINT        | The <b>PP-Module</b> includes <b>FMT_SMF.1/ENDPOINT</b> to define the management functions that can be performed to control the behavior of the <b>TSE</b> and the management roles that are authorized to perform those functions.                               |
|                    | FMT_SMF.1/HOST            | The <b>PP-Module</b> includes <b>FMT_SMF.1/HOST</b> to define the management functions that can be performed to control the behavior of Host Agents that are connected to the <b>TOE</b> and the management roles that are authorized to perform those functions. |
|                    | FMT_SMR.1                 | The <b>PP-Module</b> includes <b>FMT_SMR.1</b> to define the management roles that the <b>TSE</b> supports so that its management functions can be separated by role.   |
|                    | FMT_SRF_EXT.1             | The <b>PP-Module</b> includes <b>FMT_SRF_EXT.1</b> to define the remediation functions that are available to authorized users to issue corrective actions on a system that has a connected Host Agent.  |
|                    | FMT_TRM_EXT.1 (objective) | The <b>PP-Module</b> includes <b>FMT_TRM_EXT.1</b> to provide an optional capability to ensure the integrity of management commands and policies issued to external Host Agents through use of a digital signature.   |

# 6 Consistency Rationale

## 6.1 Protection Profile for Application Software

### 6.1.1 Consistency of TOE Type

If this **PP-Module** is used to extend the Application Software **PP**, the **TOE** type for the overall **TOE** is still a software-based application. The **TOE** boundary is simply extended to include the **EDR** functionality that is built into the application so that additional security functionality is claimed within the scope of the **TOE**.

### 6.1.2 Consistency of Security Problem Definition

Table 7: Consistency of Security Problem Definition (App **PP** base)

| <b>PP-Module Threat, Assumption, OSP</b> | <b>Consistency Rationale</b>   |
|--|--|
| <a href="#">T.CREDENTIAL_REUSE</a>       | This threat applies to authentication functionality that is introduced in this <b>PP-Module</b> and does not affect the functionality described by the <b>Base-PP</b> .  |
| <a href="#">T.MISCONFIGURATION</a>       | This threat applies to management functionality that is introduced in this <b>PP-Module</b> and does not affect the functionality described by the <b>Base-PP</b> .  |
| <a href="#">A.CONNECTIVITY</a>           | This assumption is consistent with the <b>Base-PP</b> because assuming network availability is consistent with the <b>A.PLATFORM</b> assumption defined by the <b>Base-PP</b> , which expects the <b>TOE</b> to have a trustworthy computing platform. |

### 6.1.3 Consistency of OE Objectives

Table 8: Consistency of OE Objectives (App **PP** base)

| <b>PP-Module OE Objective</b>       | <b>Consistency Rationale</b>  |
|-------------------------------------|---|
| <a href="#">OE.RELIABLE_TRANSIT</a> | This objective relates to an external interface that does not exist in the <b>Base-PP</b> and does not affect <b>Base-PP</b> functionality. |

### 6.1.4 Consistency of Requirements

This **PP-Module** identifies several **SERs** from the App **PP** that are needed to support Endpoint Detection and Response (**EDR**) functionality. This is considered to be consistent because the functionality provided by the App **PP** is being used for its intended purpose. The rationale for why this does not conflict with the claims defined by the App **PP** are as follows:

Table 9: Consistency of Requirements (App **PP** base)

| <b>PP-Module Requirement</b>   | <b>Consistency Rationale</b>  |
|--|---|
| <b>Modified SERs</b>   |   |
| This <b>PP-Module</b> does not modify any requirements when the App <b>PP</b> is the base. |   |
| <b>Additional SERs</b>   |   |
| This <b>PP-Module</b> does not add any requirements when the App <b>PP</b> is the base.    |   |
| <b>Mandatory SERs</b>  |   |
| <a href="#">FAU_ALT_EXT.1</a>  | This <b>SER</b> defines auditable alerts for the <b>EDR</b> . It does not impact the <a href="#">[AppPP]</a> functionality.   |
| <a href="#">FAU_COL_EXT.1</a>  | This <b>SER</b> defines the minimum event data that the <b>EDR</b> collects from a Host Agent. It does not impact the <a href="#">[AppPP]</a> functionality.  |
| <a href="#">FAU_GEN.1/EDR</a>  | This <b>SER</b> defines the minimum event data that the <b>EDR</b> server must record about authorized management dashboard activity. It does not impact the <a href="#">[AppPP]</a> functionality. |
| <a href="#">FIA_AUT_EXT.1</a>  | This <b>SER</b> defines authentication mechanisms for the <b>EDR</b> . It does not impact the <a href="#">[AppPP]</a> functionality.  |
| <a href="#">FIA_PWD_EXT.1</a>  | This <b>SER</b> defines specific authentication criteria for passwords. It does not impact the <a href="#">[AppPP]</a> functionality.   |



|                                    |  |
|------------------------------------|--|
| <a href="#">FMT_SMF.1/ENDPOINT</a> | This <a href="#">SER</a> defines a specific set of management functions for an <a href="#">EDR</a> by an <a href="#">EDR</a> . It does not impact the <a href="#">[AppPP]</a> functionality. |
| <a href="#">FMT_SMF.1/HOST</a>     | This <a href="#">SER</a> defines a specific set of management functions for a Host Agent by an <a href="#">EDR</a> . It does not impact the <a href="#">[AppPP]</a> functionality.           |
| <a href="#">FMT_SMR.1</a>          | This <a href="#">SER</a> defines a specific set of management roles for an <a href="#">EDR</a> . It does not impact the <a href="#">[AppPP]</a> functionality.                               |
| <a href="#">FMT_SRF_EXT.1</a>      | This <a href="#">SER</a> defines a specific set of remediation functions for an <a href="#">EDR</a> . It does not impact the <a href="#">[AppPP]</a> functionality.                          |
| <a href="#">FPT_ITT.1</a>          | This <a href="#">SER</a> defines a specific set of functions for logically distinct secure communication with a Host Agent. It does not impact the <a href="#">[AppPP]</a> functionality.    |
| <a href="#">FTP_TRP.1</a>          | This <a href="#">SER</a> defines a specific set of functions for secure remote administration of the <a href="#">EDR</a> . It does not impact <a href="#">[AppPP]</a> functionality.         |

#### Optional [SERs](#)

This [PP-Module](#) does not define any Optional requirements.

#### Objective [SERs](#)

|                               |  |
|-------------------------------|--|
| <a href="#">FMT_TRM_EXT.1</a> | This <a href="#">SER</a> defines protections for the integrity of commands sent to the Host Agent. It does not impact the <a href="#">[AppPP]</a> functionality. |
|-------------------------------|--|

#### Implementation-dependent [SERs](#)

This [PP-Module](#) does not define any Implementation-dependent requirements.

#### Selection-based [SERs](#)

This [PP-Module](#) does not define any Selection-based requirements.

# Appendix A - Optional SFRs

## A.1 Strictly Optional Requirements

---

This PP-Module does not define any Strictly Optional SFRs or SARs.

## A.2 Objective Requirements

---

### A.2.1 Auditable Events for Objective SFRs

Table 10: Auditable Events for Objective Requirements

| Requirement   | Auditable Events    | Additional Audit Record Contents |
|---------------|---------------------|----------------------------------|
| FMT_TRM_EXT.1 | No events specified | N/A                              |

### A.2.2 Security Management (FMT)

#### FMT\_TRM\_EXT.1 Trusted Remediation Functions

##### FMT\_TRM\_EXT.1.1

The [selection: *EDR*, *EDR Platform*] shall digitally sign commands and policies sent to the Host Agent using [selection: *RSA*, *ECDSA*] signatures that meet FIPS PUB 186-5.

**Application Note:** The intent of this requirement is to cryptographically tie any policy updates or commands sent to the Host Agent as being from the *EDR*. This is not to protect the policies in transit as they are already protected by [FPT\\_ITT.1](#). If the TSF implements this function, any signature algorithms used should be consistent with any selections made in FCS\_COP.1/Sig Gen and FCS\_COP.1/SigVer in the Protection Profile for Application Software, Version 2.0.

## A.3 Implementation-dependent Requirements

---

This PP-Module does not define any Implementation-dependent SFRs.

## Appendix B - Selection-based Requirements

This PP-Module does not define any Selection-based SERs.

# Appendix C - Extended Component Definitions

This appendix contains the definitions for all extended requirements specified in the PP-Module.

## C.1 Extended Components Table

All extended components specified in the PP-Module are listed in this table:

**Table 11: Extended Component Definitions**

| Functional Class                        | Functional Components   |
|---|---|
| Identification and Authentication (FIA) | FIA_AUT_EXT Dashboard Authentication Mechanisms<br>FIA_PWD_EXT Password Authentication          |
| Security Audit (FAU)                    | FAU_ALT_EXT Server Alerts<br>FAU_COL_EXT Collected Endpoint Data                                |
| Security Management (FMT)               | FMT_SRF_EXT Specification of Remediation Functions<br>FMT_TRM_EXT Trusted Remediation Functions |

## C.2 Extended Component Definitions

### C.2.1 Identification and Authentication (FIA)

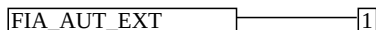
This PP-Module defines the following extended components as part of the FIA class originally defined by CC Part 2:

#### C.2.1.1 FIA\_AUT\_EXT Dashboard Authentication Mechanisms

##### Family Behavior

Components in this family define requirements for authentication behavior that is unique to an EDR TOE.

##### Component Leveling



[FIA\\_AUT\\_EXT.1](#), Dashboard Authentication Mechanisms, identifies the only authentication factors that may be used for authentication to a management interface of an EDR.

##### Management: FIA\_AUT\_EXT.1

There are no management functions foreseen.

##### Audit: FIA\_AUT\_EXT.1

There are no audit events foreseen.

##### FIA\_AUT\_EXT.1 Dashboard Authentication Mechanisms

Hierarchical to: No other components.

Dependencies to: No dependencies.

##### FIA\_AUT\_EXT.1.1

The TSE shall [selection:

- *leverage the platform for authentication*
- *provide authentication based on username/password and [selection:*
  - *authentication with external smart card and PIN*
  - *no other factors*

]

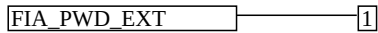
] to support logins to any management dashboard or API.

### C.2.1.2 FIA\_PWD\_EXT Password Authentication

#### Family Behavior

Components in this family define requirements for password authentication criteria.

#### Component Leveling



[FIA\\_PWD\\_EXT.1](#), Password Authentication, defines the length and character set requirements for password authentication factors.

#### Management: FIA\_PWD\_EXT.1

There are no management functions foreseen.

#### Audit: FIA\_PWD\_EXT.1

There are no audit events foreseen.

#### FIA\_PWD\_EXT.1 Password Authentication

Hierarchical to: No other components.

Dependencies to: [FIA\\_AUT\\_EXT.1](#) Dashboard Authentication Mechanisms

#### FIA\_PWD\_EXT.1.1

The TSF shall support the following for the Password Authentication Factor:

1. Passwords shall be able to be composed of any combination of [**selection:** *upper and lower case letters*, [**assignment:** *a character set of at least 52 characters*]], numbers, and special characters: [**selection:** *!", "@", "#", "\$", "%", "^", "&", "\*", "(", ")", [assignment: other characters]*],
2. Password length up to [**assignment:** *an integer greater than or equal to 64*] characters shall be supported.

### C.2.2 Security Audit (FAU)

This PP-Module defines the following extended components as part of the FAU class originally defined by CC Part 2:

#### C.2.2.1 FAU\_ALT\_EXT Server Alerts

#### Family Behavior

Components in this family define requirements for system activity that causes the TSF to generate an alert of the activity and for the contents of these alerts.

#### Component Leveling



[FAU\\_ALT\\_EXT.1](#), Server Alerts, describes alert triggers and the information contained in alerts.

#### Management: FAU\_ALT\_EXT.1

The following actions could be considered for the management functions in FMT:

- Configure visual suppression of alerts.

#### Audit: FAU\_ALT\_EXT.1

There are no auditable events foreseen.

#### FAU\_ALT\_EXT.1 Server Alerts

Hierarchical to: No other components.

Dependencies to: No dependencies.

#### FAU\_ALT\_EXT.1.1

The TSE shall alert authorized users on a management dashboard in the event of: detection of potentially unauthorized activity on enrolled endpoints.

#### FAU\_ALT\_EXT.1.2

The TSE shall provide a visualization of detected alerts of potentially unauthorized incidents, and shall include:

- a. An initial incident severity and [selection: assessment, categorization, score, ranking],
- b. An incident timeline.

#### FAU\_ALT\_EXT.1.3

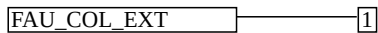
The TSE shall provide a data export capability for selected alerts with a specified standards-based format of [assignment: alert format].

### C.2.2.2 FAU\_COL\_EXT Collected Endpoint Data

#### Family Behavior

Components in this family define requirements for the data that is collected from a Host Agent.

#### Component Leveling



FAU\_COL\_EXT.1, Collected Endpoint Data, identifies the specific data collected from a Host Agent.

#### Management: FAU\_COL\_EXT.1

The following actions could be considered for the management functions in FMT:

- Configuration of the time period for transmission of collected data.
- Configuration of label or tag information to associate collected data with individual endpoint systems or groups of systems.

#### Audit: FAU\_COL\_EXT.1

There are no auditable events foreseen.

#### FAU\_COL\_EXT.1 Collected Endpoint Data

Hierarchical to: No other components.

Dependencies to: No dependencies.

#### FAU\_COL\_EXT.1.1

The TSE shall collect the following minimum set of endpoint data from a Host Agent:

- a. Operating System (OS) version, architecture, and IP Address,
- b. Privileged and unprivileged endpoint account login activity,
- c. Process creation,
- d. Libraries and modules loaded by processes,
- e. Filenames and [selection: [assignment: other metadata], no other metadata] of files created and [selection: [assignment: other activities performed to files], no other activities] on persistent storage,
- f. [selection: [assignment: other host data], no other host data].

### C.2.3 Security Management (FMT)

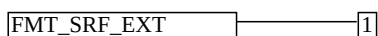
This PP-Module defines the following extended components as part of the FMT class originally defined by CC Part 2:

#### C.2.3.1 FMT\_SRF\_EXT Specification of Remediation Functions

#### Family Behavior

Components in this family define requirements for remediation functions that an EDR can perform to affect the behavior of an endpoint system.

#### Component Leveling



FMT\_SRF\_EXT.1, Specification of Remediation Functions, lists the supported remediation functions and identifies the management roles that may perform these functions.

**Management: FMT\_SRF\_EXT.1**

There are no management functions foreseen.

**Audit: FMT\_SRF\_EXT.1**

There are no audit events foreseen.

**FMT\_SRF\_EXT.1 Specification of Remediation Functions**

Hierarchical to: No other components.

Dependencies to: [FMT\\_SMR.1](#) Security Management Roles

**FMT\_SRF\_EXT.1.1**

The ~~TSE~~ shall be capable of performing the following remediation functions:

**Table 12: Management Functions**

[Status Markers:  
M - Mandatory  
O - Optional or Objective  
- - Not Applicable

| # | Management Function   | Administrator | SOC Analyst | Read-Only User |
|---|---|---------------|-------------|----------------|
| 7 | Quarantine an endpoint by [ <b>selection:</b> <i>logically quarantining the endpoint from the network unless allowlisted, quarantining the malicious file on the endpoint</i> ] | <u>O</u>      | <u>M</u>    | -              |
| 8 | Terminate a running process on an endpoint  | <u>O</u>      | <u>M</u>    | -              |
| 9 | Retrieve potentially unauthorized or affected files from an endpoint  | <u>O</u>      | <u>O</u>    | -              |

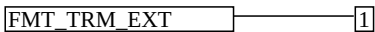
].

**C.2.3.2 FMT\_TRM\_EXT Trusted Remediation Functions**

**Family Behavior**

Components in this family define how the ~~TQF~~ can assert the authenticity of the remediation actions it requests from Host Agents.

**Component Leveling**



[FMT\\_TRM\\_EXT.1](#), Trusted Remediation Functions, requires all management activities bound for a Host Agent to be digitally signed.

**Management: FMT\_TRM\_EXT.1**

There are no management functions foreseen.

**Audit: FMT\_TRM\_EXT.1**

There are no audit events foreseen.

**FMT\_TRM\_EXT.1 Trusted Remediation Functions**

Hierarchical to: No other components.

Dependencies to: No dependencies.

**FMT\_TRM\_EXT.1.1**

The [**selection:** ~~EDR~~, ~~EDR Platform~~] shall digitally sign commands and policies sent to the Host Agent using [**selection:** *RSA, ECDSA*] signatures that meet FIPS PUB 186-5.

## Appendix D - Implicitly Satisfied Requirements

This appendix lists requirements that should be considered satisfied by products successfully evaluated against this ~~PP-Module~~. These requirements are not featured explicitly as ~~SFRs~~ and should not be included in the ~~ST~~. They are not included as standalone ~~SFRs~~ because it would increase the time, cost, and complexity of evaluation. This approach is permitted by [\[CC\]](#) Part 1, 8.3 Dependencies between components.

This information benefits systems engineering activities which call for inclusion of particular security controls. Evaluation against the ~~PP-Module~~ provides evidence that these controls are present and have been evaluated.

| Requirement                          | Rationale for Satisfaction   |
|--------------------------------------|--|
| FIA_UID.1 - Timing of Identification | <del>CC</del> Part 2 specifies FIA_UID.1 as a dependency of <a href="#">FMT_SMR.1</a> because the <del>TSE</del> must have some way of identifying users so that they can be associated with management roles. This dependency is implicitly addressed through <a href="#">FIA_AUT_EXT.1</a> , which specifies an alternative method of user identification. |
| FPT_STM.1 - Reliable Time Stamps     | <del>CC</del> Part 2 specifies FPT_STM.1 as a dependency of FAU_GEN.1 because the audit data require a reliable timestamp to satisfy FAU_GEN.1.2. This dependency is implicitly addressed through the A.PLATFORM assumption of the <del>Base-PP</del> because a "trustworthy computing platform" is assumed to include a reliable system clock.              |



## Appendix E - Acronyms

**Table 13: Acronyms**

| Acronym          | Meaning                                     |
|------------------|---|
| API              | Application Programming Interface           |
| Base-PP          | Base Protection Profile                     |
| CC               | Common Criteria                             |
| CEF              | Common Event Format                         |
| CEM              | Common Evaluation Methodology               |
| cPP              | Collaborative Protection Profile            |
| CyboX            | Cyber Observable expression                 |
| DRBG             | Deterministic Random Bit Generator          |
| DSS              | Digital Signature Standard                  |
| DTLS             | Datagram Transport Layer Security           |
| EDR              | Endpoint Detection and Response             |
| EDR              | Endpoint Detection and Response             |
| EP               | Extended Package                            |
| FP               | Functional Package                          |
| HTTPS            | Hypertext Transfer Protocol Secure          |
| IODEF            | Incident Object Description Exchange Format |
| IP               | Internet Protocol                           |
| IT               | Information Technology                      |
| LEEF             | Log Event Extended Format                   |
| OE               | Operational Environment                     |
| OS               | Operating System                            |
| PP               | Protection Profile                          |
| PP-Configuration | Protection Profile Configuration            |
| PP-Module        | Protection Profile Module                   |
| RBG              | Random Bit Generator                        |
| SAR              | Security Assurance Requirement              |
| SER              | Security Functional Requirement             |
| ST               | Security Target                             |
| STIX             | Structured Threat Information expression    |
| TLS              | Transport Layer Security                    |
| TOE              | Target of Evaluation                        |
| TSE              | TOE Security Functionality                  |

|                    |   |
|--------------------|---|
| <code>.TSEI</code> | <code>.TSE</code> Interface             |
| <code>.TSS</code>  | <code>.TOE</code> Summary Specification |

# Appendix F - Bibliography

Table 14: Bibliography

| Identifier | Title  |
|------------|--|
| [CC]       | Common Criteria for Information Technology Security Evaluation - <ul style="list-style-type: none"><li>• <a href="#">Part 1: Introduction and general model</a>, CCMB-2022-11-001, CC:2022, Revision 1, November 2022.</li><li>• <a href="#">Part 2: Security functional requirements</a>, CCMB-2022-11-002, CC:2022, Revision 1, November 2022.</li><li>• <a href="#">Part 3: Security assurance requirements</a>, CCMB-2022-11-003, CC:2022, Revision 1, November 2022.</li><li>• <a href="#">Part 4: Framework for the specification of evaluation methods and activities</a>, CCMB-2022-11-004, CC:2022, Revision 1, November 2022.</li><li>• <a href="#">Part 5: Pre-defined packages of security requirements</a>, CCMB-2022-11-005, CC:2022, Revision 1, November 2022.</li></ul> |
| [CEM]      | Common Methodology for Information Technology Security Evaluation - <ul style="list-style-type: none"><li>• <a href="#">Evaluation methodology</a>, CCMB-2022-11-006, CC:2022, Revision 1, November 2022.</li></ul>  |
| [AppPP]    | <a href="#">Protection Profile for Application Software, Version 2.0, June 16, 2025</a>  |
| [EDB]      | <a href="#">PP-Module for Host Agent</a> , Version 2.0, January 13, 2026   |