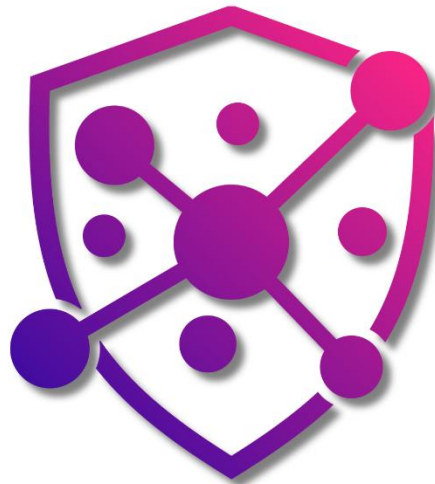


CURIUM CONTINUUM



D P R A Digital Product Risk Management

User Manual for CURIUM Compliance Continuum DPRA Tool

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CURIUM Digital Product Risk Management (DPRA)

DPRA Overview

DPRA is an evidence-driven, step-wised dynamic approach which aims to determine the compliance of ICT products based on the associated assets and their risks and controls to mitigate the risks. The tool provides capabilities to organisations to manage their security risks in a holistic and cost-effective manner by assessing both individual and cascading risks, taking into account the vulnerabilities and threats that are linked with the ICT product. The tools adopt open intelligence in real time to identify the vulnerabilities and threats that are linked with the assets and standards such as NIST 800-53 and ISO/IEC 15408 for a unified security declaration and control.

The tool exhibits the following key features:

- Open intelligence facilitates the DPRA to adopt and incorporate a variety of security relating open-source information from CPE, CAPEC, and CVE as well as standards and specifications such as NIST 800-53 and ISO/IEC 15408 for vulnerability and threat identification as well as control and security declaration.
- The asset inventory includes internal and external assets, their related components, vulnerabilities and threats along with dependency modelling to visualize the dependencies among the assets for the discovery of attack paths given a specific set of assets.
- The ICT product declaration feature allows organizations to declare the products required to achieve compliance. The feature includes a security declaration for the product and allows it to be linked to an asset, along with the asset's risk levels and controls, enabling an overall compliance assessment.
- The Vulnerabilities Management feature identifies the possible vulnerabilities from the CVEDetails portal that are relevant with the identified asset in real time. All the vulnerability information is based on the CVE naming standard and is organized according to severity determined by the Common Vulnerability Scoring System Version 3 (CVSSv3) standard.
- The Threats feature acts as a comprehensive dictionary of known threats based on the MITRE attack identifiers and associates the identified vulnerabilities with one or more weakness identifiers.

DPRA User Manual

User Login: The user needs to obtain credentials to access the system. The login screen presented in Figure 1 introduces the initial **access gateway** to access the Digital Product Risk Management / Cyber Resilience Assessment. This process is the first critical step in ensuring that only legitimate users can access the system. The sign-in includes username or email address, and password.

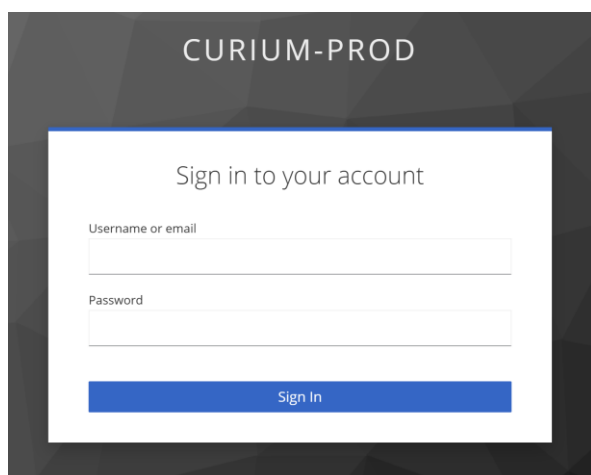


Figure 1: User login prompt

User dashboard: Upon successful login, the legitimate user is immediately directed to the main dashboard, as shown conceptually in Figure 2. It acts as the main interface for all activities related with the tool. The dashboard includes necessary components through a clear navigation sidebar that groups related functions, including asset inventory, components, vulnerabilities, threats and product.

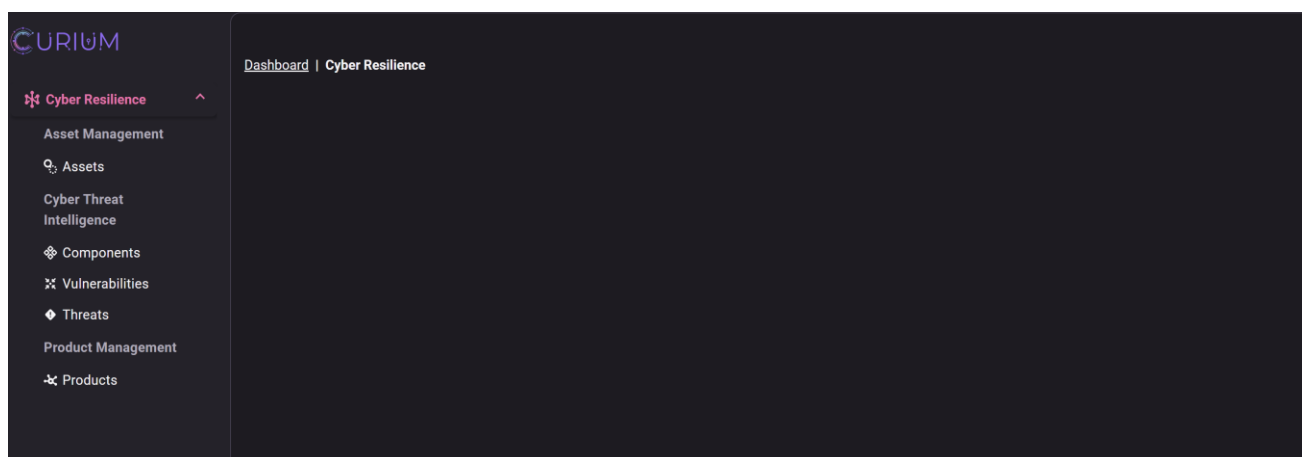


Figure 2: User Dashboard

Asset Inventory: The initial step to trigger the DPRA is the inventory of assets where users are allowed to add the asset relevant to the organization. There are two different types of assets that can be added into DPRA as shown in Figure 3. The asset can be added by following the open intelligence CPE or using the SBOM files that include information about the assets. To do that, the user selects “Add Asset” in the “Assets” section and proceeds accordingly.

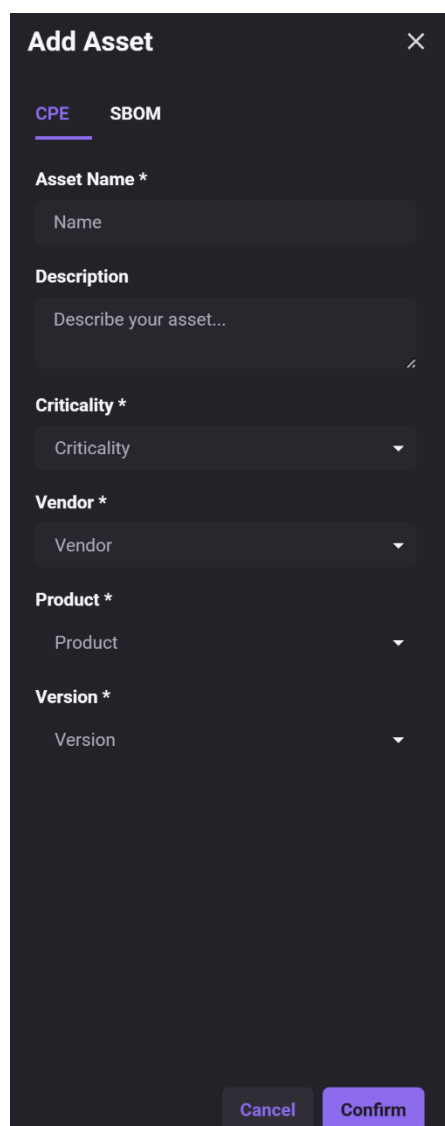
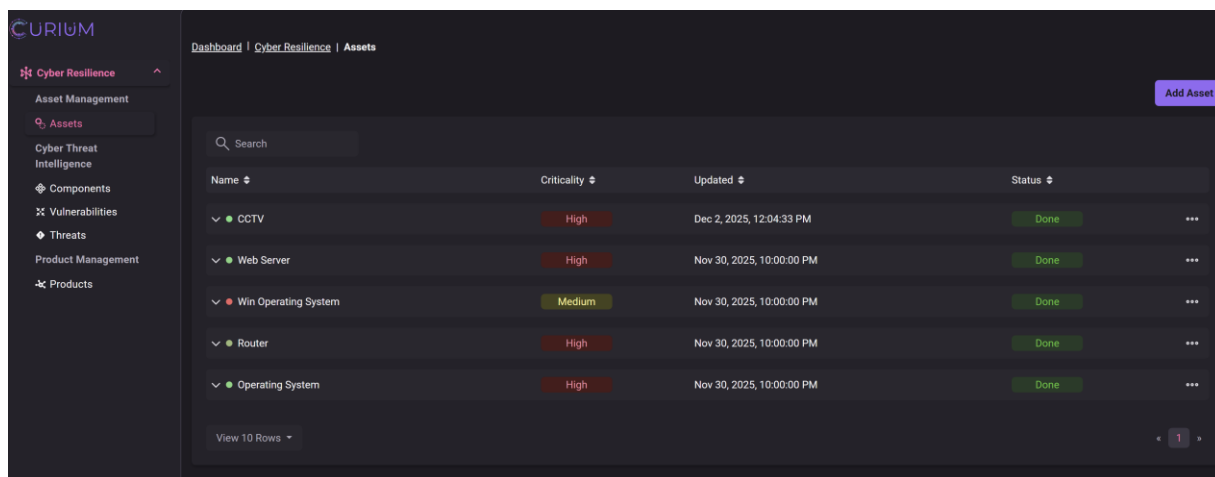


Figure 3: Asset Addition

Figure 4 illustrates the interface for an asset inventory once all assets have been added. The asset function shown here also allows users to easily add new assets using the “Add Asset” button.



The screenshot shows the CURIUM interface for Asset Management. The left sidebar contains a menu with 'Cyber Resilience' expanded, showing 'Asset Management' and 'Assets'. The main area displays a table of assets with columns for Name, Criticality, Updated, and Status. A search bar and an 'Add Asset' button are at the top right. The table lists five assets: CCTV (High), Web Server (High), Win Operating System (Medium), Router (High), and Operating System (High). Each asset has a 'Done' status and a three-dot menu icon.

Name	Criticality	Updated	Status
✓ CCTV	High	Dec 2, 2025, 12:04:33 PM	Done
✓ Web Server	High	Nov 30, 2025, 10:00:00 PM	Done
✓ Win Operating System	Medium	Nov 30, 2025, 10:00:00 PM	Done
✓ Router	High	Nov 30, 2025, 10:00:00 PM	Done
✓ Operating System	High	Nov 30, 2025, 10:00:00 PM	Done

Figure 4: Asset Inventory

Vulnerability Management: The DPRA lists vulnerabilities as a core function of its vulnerability management capabilities. It achieves this by automatically importing published vulnerability reports from open repositories like CWE (Common Weakness Enumeration) and the NVD (National Vulnerability Database), linking them to the manufacturer's identified assets.

Error! Reference source not found. shows the list of vulnerabilities with details for each vulnerability including the CVE ID, severity level, base and EPSS score (usually from CVSS) and library. The tool notably includes the EPSS score, which specifies the exploitation probability of a vulnerability within a given period, allowing for risk-based prioritization. Moreover, as shown in Figure 6, the system allows users to add confirmed vulnerabilities that are already present in the NVD and link them to the relevant component or asset for comprehensive tracking.

Components Vulnerabilities Threats						
Search						
Id ▾	Severity ▴	Base score ▴	Epss score ▴	Percentile ▴	Library ▴	
✓ CVE-2023-20066	Medium	65.0%	0.1%	46.7%	NVD	...
✓ CVE-2023-20065	High	78.0%	0.0%	5.0%	NVD	...
✓ CVE-2023-20035	High	78.0%	0.0%	5.0%	NVD	...
✓ CVE-2023-20027	High	86.0%	0.1%	50.4%	NVD	...
✓ CVE-2022-20919	High	86.0%	0.1%	50.3%	NVD	...

Figure 5: List of Vulnerabilities

Add Vulnerability

Vulnerability Id *

Vulnerability Id

Description

Describe your vulnerability...

Epss *

Epss score

Attack Vector *

Select Attack Vector

Attack Complexity *

Select Attack Complexity

User Interaction *

Select User Interaction

Privileges Required *

Select Privileges Requirements

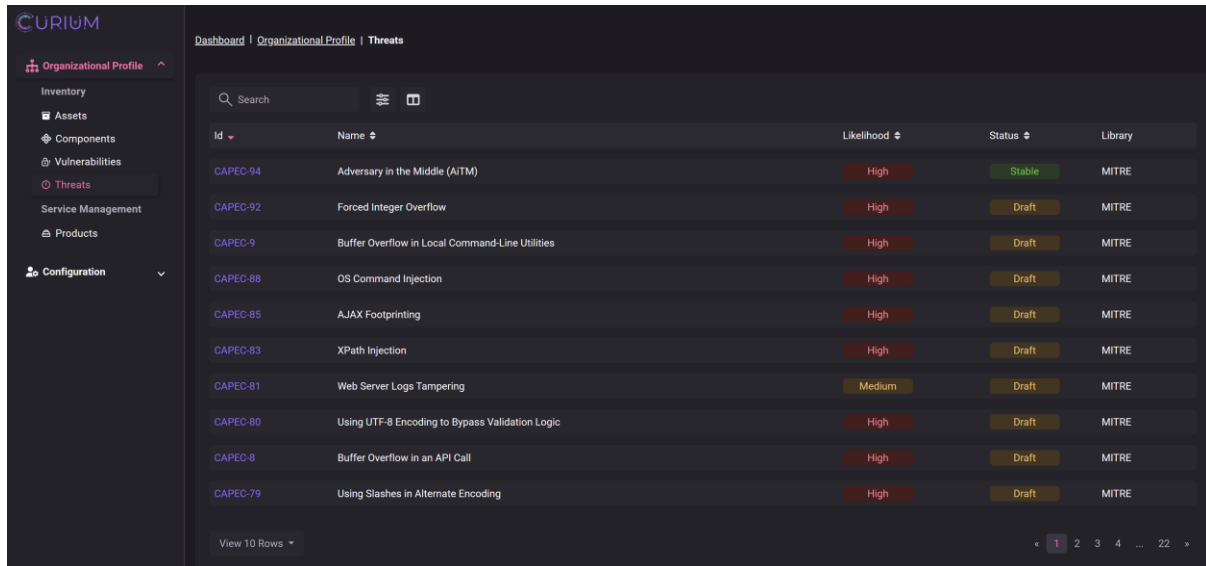
Confidentiality Impact *

Cancel

Confirm

Figure 6: Vulnerability Addition

Cyber threat intelligence: Similar to the Vulnerability Management process, this function provides a pool that collects and analyses information about existing and emerging cyber threats, including attack-types, and asset vulnerabilities, based on prominent open repositories.



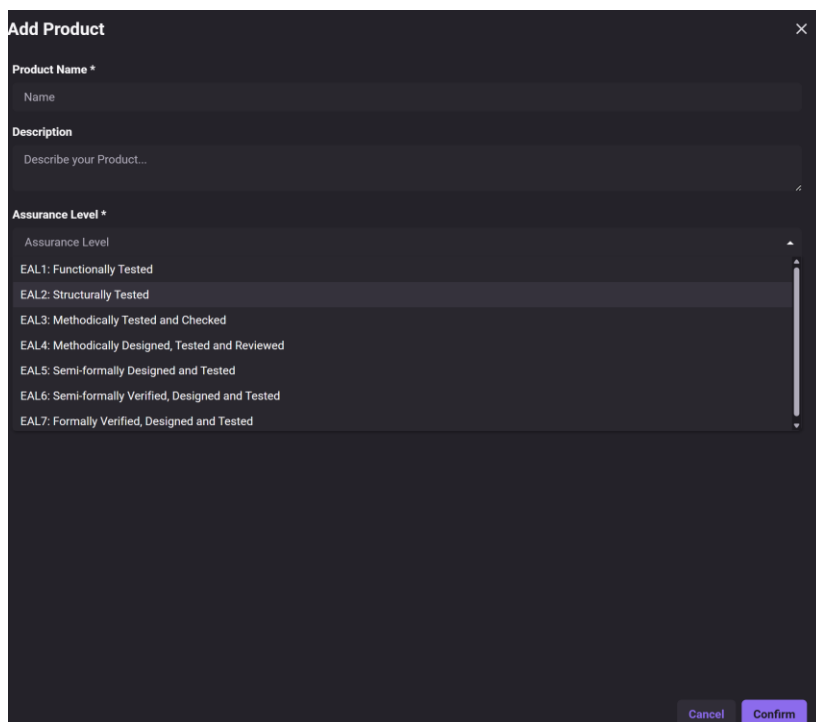
Id	Name	Likelihood	Status	Library
CAPEC-94	Adversary in the Middle (AiTM)	High	Stable	MITRE
CAPEC-92	Forced Integer Overflow	High	Draft	MITRE
CAPEC-9	Buffer Overflow in Local Command-Line Utilities	High	Draft	MITRE
CAPEC-88	OS Command Injection	High	Draft	MITRE
CAPEC-85	AJAX Footprinting	High	Draft	MITRE
CAPEC-83	XPath Injection	High	Draft	MITRE
CAPEC-81	Web Server Logs Tampering	Medium	Draft	MITRE
CAPEC-80	Using UTF-8 Encoding to Bypass Validation Logic	High	Draft	MITRE
CAPEC-8	Buffer Overflow in an API Call	High	Draft	MITRE
CAPEC-79	Using Slashes in Alternate Encoding	High	Draft	MITRE

Figure 7: Threat Detailed

Product declaration: This feature begins with the addition of products with Digital Elements that are relevant to the organization and required to achieve compliance. Figure 8 shows how users can add a product and define a specific assurance level for it, including:

- **Product Name:** A required field for assigning a unique and recognizable name to the product
- **Description:** An open text field for providing a brief overview of the product's function, scope, and intended environment
- **Assurance Level:** Allows users to choose specific assurance level derived from the Common Criteria (ISO/IEC 15408) including:
 - AL1 (Functionally Tested): The lowest level; testing is limited to the product's basic functions.
 - EAL2 (Structurally Tested): Basic security assurance gained through testing and review of the design structure.
 - EAL3 (Methodically Tested and Checked): Requires more rigorous testing and structured design methods.
 - EAL4 (Methodically Designed, Tested and Reviewed): Considered the highest practical level of assurance for commercial products, requiring rigorous methods and testing.

- EAL5 (Semi-formally Designed and Tested) to EAL7 (Formally Verified, Designed and Tested): These represent progressively higher levels of assurance, typically reserved for high-risk applications (e.g., security kernels, smart cards) where formal verification methods are mandated.



Add Product

Product Name *

Name

Description

Describe your Product...

Assurance Level *

Assurance Level

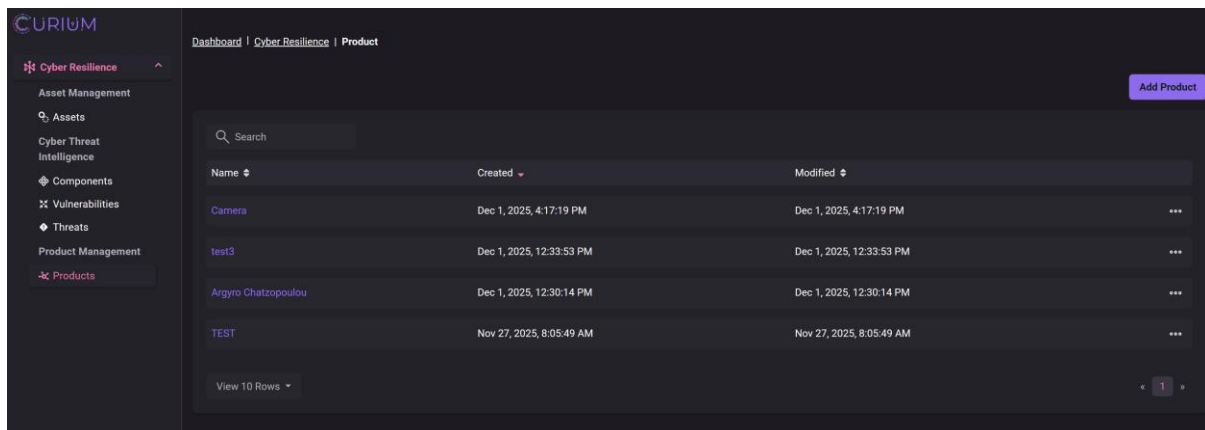
- EAL1: Functionally Tested
- EAL2: Structurally Tested
- EAL3: Methodically Tested and Checked
- EAL4: Methodically Designed, Tested and Reviewed
- EAL5: Semi-formally Designed and Tested
- EAL6: Semi-formally Verified, Designed and Tested
- EAL7: Formally Verified, Designed and Tested

Cancel Confirm

Figure 8: Adding product

Once the product is added to the system, the user is navigated to the Product Details screen, as shown in Figure 9. This allows the user to add all relevant information from asset listing to the security objective, requirements necessary to support the assessment. It includes

- Assets: Asset related with the product
- Security Objectives: This tab is used to declare the specific security objectives relevant to the product.
- Security Requirements: This section details the specific security requirements (the mechanisms or functions needed to achieve the declared security objectives)
- Questionnaires: This final tab represents the launch point for the core CyReA Assessment Wizard. Once assets, objectives, and requirements are defined, the user proceeds here to complete the structured, questionnaire-based assessment that verifies compliance against the CRA mandates.



The screenshot shows the CURIUM interface with a sidebar menu on the left containing 'Cyber Resilience', 'Asset Management', 'Assets', 'Cyber Threat Intelligence', 'Components', 'Vulnerabilities', 'Threats', 'Product Management', and 'Products'. The main content area is titled 'Dashboard | Cyber Resilience | Product' and features a search bar and an 'Add Product' button. Below these is a table with columns for Name, Created, and Modified. The table contains four rows of product data.

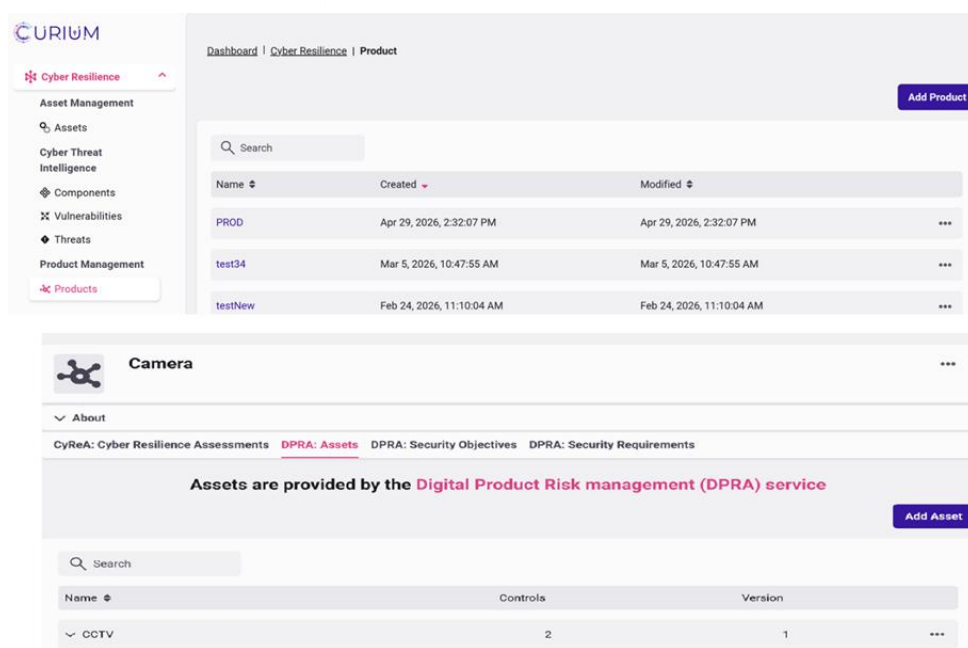
Name	Created	Modified
Camera	Dec 1, 2025, 4:17:19 PM	Dec 1, 2025, 4:17:19 PM
test3	Dec 1, 2025, 12:33:53 PM	Dec 1, 2025, 12:33:53 PM
Argyro Chatzopoulou	Dec 1, 2025, 12:30:14 PM	Dec 1, 2025, 12:30:14 PM
TEST	Nov 27, 2025, 8:05:49 AM	Nov 27, 2025, 8:05:49 AM

At the bottom of the table, there is a 'View 10 Rows' link and a pagination indicator showing '1'.

Figure 9: Product Detailed

Figure 10 shows the security requirements tab within the Product Details view. These requirements are typically extracted from recognized standards such as the Common Criteria (ISO/IEC 15408), serving as a standardized method for defining the product's security posture. Each requirement is identified by a unique ID, name and applicant as status. The appliance is a clear visual indicator to show whether the requirement is fully or partially applied to the product.

Security requirements for the assets of a product with digital elements can be defined through the **"DPRA: Security Requirements"** tab within the DPRA product management environment. Security requirements are mapped to security objectives, as mentioned at the beginning of this section. Specifically, each security objective can be addressed by satisfying one or more security requirements. Upon selecting the security objectives of the product's assets, a list of all interrelated requirements appears in the **"DPRA: Security Requirements"** tab.



Product Specific Security Requirements

Name	Created	Modified
PROD	Apr 29, 2026, 2:32:07 PM	Apr 29, 2026, 2:32:07 PM
test34	Mar 5, 2026, 10:47:55 AM	Mar 5, 2026, 10:47:55 AM
testNew	Feb 24, 2026, 11:10:04 AM	Feb 24, 2026, 11:10:04 AM

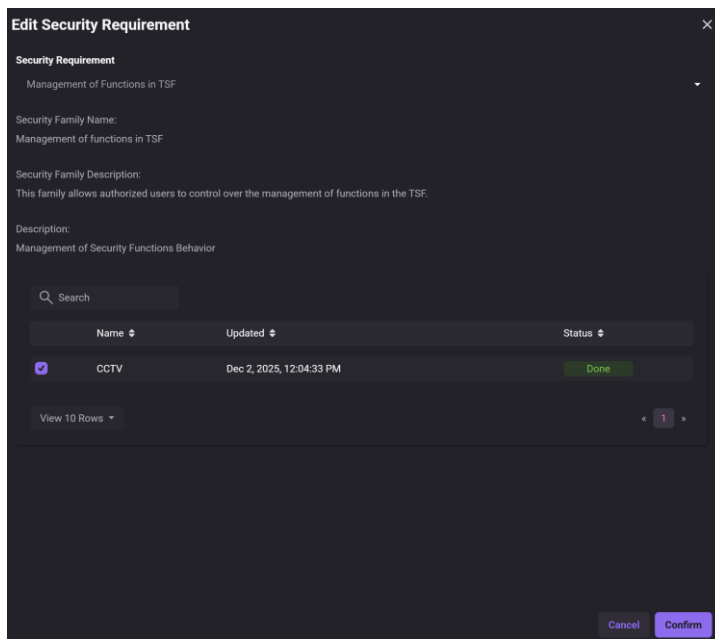
Camera

Assets are provided by the **Digital Product Risk management (DPRA) service**

Name	Controls	Version
CCTV	2	1

Figure 10: Product Specific Security Requirements

The user can view the security requirements for each product asset and deselect those they wish to exclude from the security evaluation process of an individual asset. This can be done by navigating to the respective options of the 3-dot menu, located to the right of each requirement as shown in Figure 11.



Edit Security Requirement

Security Requirement
Management of Functions in TSF

Security Family Name:
Management of functions in TSF

Security Family Description:
This family allows authorized users to control over the management of functions in the TSF.

Description:
Management of Security Functions Behavior

Search

Name	Updated	Status
CCTV	Dec 2, 2025, 12:04:33 PM	Done

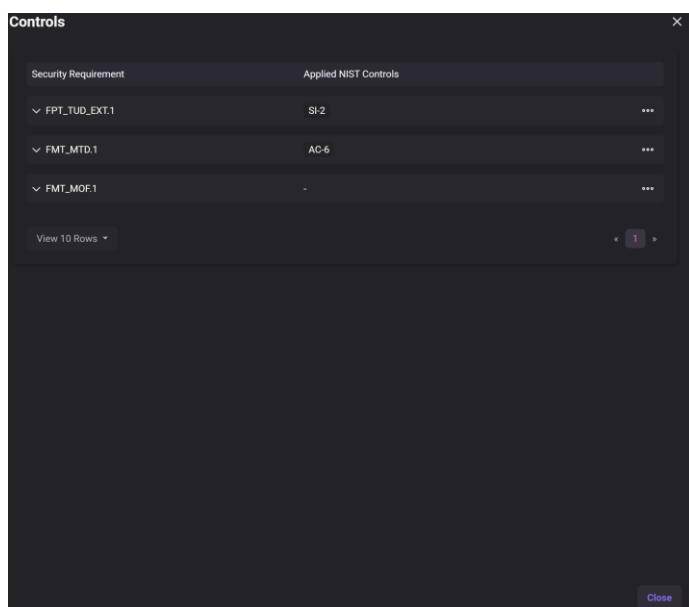
View 10 Rows

Cancel Confirm

Figure 11: Security Requirements Amendment

Security Control Management

Security requirements are interrelated with security controls to address these requirements. To add/manage security controls on assets, the user selects the preferred asset in the Product Management environment and by clicking on the 3-dot menu, he/she selects the “Manage Control” option. The Control tab then appears depicting all security requirements defined for the specific asset. To assign security controls on the product’s asset, the user selects a security requirement and clicks from the 3-dot menu the option “Assign NIST Controls”. From the “Manage NIST controls” tab, the user then selects the security controls implemented to satisfy the specific requirement from a default list, as shown in Figure 12.



Security Requirement	Applied NIST Controls	
▼ FPT_TUD_EXT.1	SI-2	...
▼ FMT_MTD.1	AC-6	...
▼ FMT_MOF.1	-	...

View 10 Rows ▾

1

Close

Figure 12: Security Control Management

View Product's Protection Profile

After defining all the relevant technical and security information for the product and its embedded elements (assets), the user can review the product's protection profile. To do this, the user selects the desired product from the product list in the DPRA product management environment and then selects the **“View Protection Profile”** option from the three-dot menu located on the right-hand side of the product tab, as shown in Figure 13.

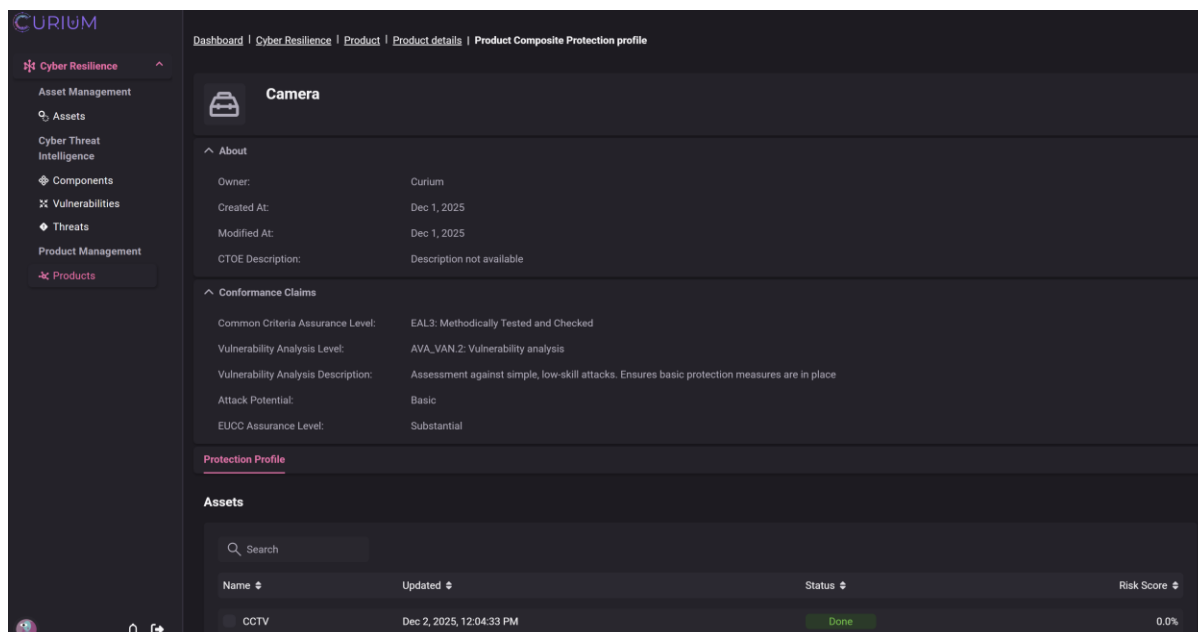


Figure 13: Protection profile



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