



OSCRAT

Open-Source Cyber Resilience Act Tools

D3.5.

OSCRAT – Testing Report M12

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| Abstract |
|---|
| <p>This report summarizes end-to-end testing of the Product Management and Compliance Assessment Platform. The testing validated functional workflows, data consistency, UI behaviour, and file handling across modules including Product Management, Compliance Assessment, Dashboards, SBOM/Scan, Vulnerabilities, and Incidents. Manual, exploratory, black box, and regression testing confirmed correct system behaviour, business rule enforcement, and reliable report generation.</p> |
| Keywords |
| <p>Product Management, Compliance Assessment, Functional Testing, Vulnerability Management, Incident Tracking, Dashboard, SBOM, Data Integrity, Regression Testing</p> |

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1. Executive Summary

1.1 Summary

Between August and November 2025, the OSCRAT platform expanded from its product management foundation to include security compliance and risk management capabilities. Development efforts focused on four core areas: Security & Compliance Operations, Organizational Assessment Framework, Repository & SBOM Management, and Platform Experience & Reliability. These improvements prepare OSCRAT to support organizations working with regulatory requirements including the EU Cyber Resilience Act.

1.2. Security & Compliance Operations

The platform now includes security management capabilities that help organizations identify, track, and remediate vulnerabilities across their software portfolios. The vulnerability management system integrates the Gripe scanner to provide automated vulnerability detection that connects with SBOM generation workflows. When organizations generate or import SBOMs, the system automatically initiates vulnerability scanning, creating detailed reports that classify threats by severity using CVSS scoring metrics. The system maintains complete linkage between discovered vulnerabilities and their source components, enabling precise impact analysis and targeted remediation efforts.

Beyond vulnerability detection, the platform introduced a complete incident management system that serves as a centralized repository for security incident documentation and response coordination. Teams can create incidents linked to specific product versions, documenting timelines, impacts, and remediation actions while attaching relevant forensic evidence and supporting documentation. This integration with the broader product management framework ensures that incident data remains contextual and actionable, appearing directly within product and version overview pages for immediate visibility.

Cyber Resilience Act (CRA) compliance assessment capabilities were implemented with purpose-built forms that capture all required compliance data points. These assessments integrate with the broader assessment framework to generate audit-ready documentation. The system maintains full assessment history with versioning for tracking changes over time.

1.3. Organizational Assessment Framework

The period saw the implementation of a multi-tiered assessment of architecture with three levels: organization-wide baselines, team-specific assessments, and version-level assessments. This system uses an inheritance model where

organizational requirements cascade down while allowing overrides for specific contexts. The platform now includes versioning and history tracking for all assessments, supporting audit requirements and regulatory compliance.

The organizational data model was enhanced to capture size classifications, product support dates, and acronyms for improved reporting. Organizations can establish reporting relationships between teams, supporting complex hierarchies. Assessment reset and update capabilities allow organizations to adapt to changing compliance requirements while maintaining historical records for audit purposes.

1.4. Repository & SBOM Management

SBOM generation and management capabilities now support both automated generation from repositories and manual file import. The system uses worker architecture for background processing of repository analysis and SBOM creation. Both private and public repositories are supported, with configuration options for specific branches, tags, or committees.

Lockfile generation captures exact dependency versions, enabling precise vulnerability impact assessment.

The file attachment system was redesigned to provide unified document management across all platform features. Teams can attach documentation to products, remediation plans to vulnerabilities, and evidence to incidents. The system includes validation for file types and sizes, with special handling for SBOM files to maintain scanning pipeline integrity.

1.5. Platform Experience & Reliability

User experience improvements include breadcrumb navigation for orientation, side panels for contextual information, and semantic status badges for visual state indication. Page layouts and tab navigation were harmonized across product and version views, with empty states now providing actionable guidance. From validation and error handling improvements span sign-up flows, repository configuration, and assessment forms, with real-time feedback and clear error messages.

Authentication and team management refinements streamline onboarding and collaboration. The sign-up process captures organizational details for compliance workflows, while email notifications support team invitations. Infrastructure improvements include deployment configuration with health monitoring, building pipeline optimizations, enhanced database migrations, and comprehensive error codes for debugging. Translation system enhancements enable internationalization support.

1.6. Technical Approach

Development focused on architectural quality through conversion to a monorepo architecture with separate worker services, enabling clear separation of concerns and code reuse. Asynchronous job processing keeps the platform responsive under load, while error handling and retry mechanisms provide resilience. Database schema improvements enhanced data normalization and query performance with backward compatibility maintained through careful migration management. Type safety improvements and validation at system boundaries reduce runtime errors and prevent data corruption. The architecture supports horizontal scaling for enterprise deployments while remaining manageable for smaller organizations.

1.7. Conclusion

In summary, the last three months of development brought major advances to the OSCRAT platform, particularly in security, system architecture, and assessment scalability. The introduction of the Vulnerability Management System, the re-engineered Assessment Framework, and the CRA, Team, and Version assessment implementations represent significant milestones, laying a strong foundation for future growth.

Combined with improvements in file handling, job reliability, organizational data structure, and interface consistency, these contributions mark a period of meaningful and high-impact progress for OSCRAT.

2. Introduction

This testing effort covers the complete end-to-end functionality of the **Product Management and Compliance Assessment Platform**, ensuring that all core modules operate as expected and that data consistency, integrity, and user actions perform correctly across the system.

The tests validate the functional flow from product creation and assessment setup through vulnerability and incident tracking, reporting dashboards, and scan integrations.

The objective of testing was to verify:

- Correct rendering of all UI components and navigation
- Validation and enforcement of required business rules
- Data consistency between lists, detail pages, and cross-linked entities
- Correct behavior of all user actions (create, edit, delete, close, download, upload)
- Status transitions and visual indicators (progress bars, charts, completeness metrics)
- File handling integrity across attachments and report exports.

3. Functional Areas Covered

3.1. Product Creation and Management

The platform allows users to create new products in three ways:

- Add Product from Scratch – user completes applicability check, fills product details, and saves.
- Add Product from Cache – uses previously stored applicability data for faster entry.
- Add Product by Loading Existing Product – prepopulates data from an existing record for reuse.

Testing validated mandatory field handling, form warnings based on organizational role, retake survey behavior, and button visibility after applicability checks.

3.2. Team Compliance Assessment

Each area contains multiple requirements, each with mandatory questions (free text or Yes/No answers) and an evidence upload option.

The system provides Next and Back navigation, reset functionality to clear all answers, and a progress bar displaying completion percentage per requirement.

Tests verified:

- Navigation through questions
- Validation of mandatory answers
- Evidence uploads controls
- Status selection after completion
- Reset and progress bar accuracy

3.3. Dashboard

The Dashboard visually summarizes assessment progress:

- Progress Bar – overall percentage of completed requirements
- Pie chart Evaluation Status - evaluation status (finished vs. unfinished requirements)
- Pie Chart Conformity Status Breakdown – conformity status distribution by requirement status
- It also includes an Export to PDF function that generates a detailed report with progress, status summary, and requirement list.
- Testing validated correct data reflection, dynamic chart updates, and PDF export accuracy.

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Testing validated correct data reflection, dynamic chart updates, and PDF export accuracy.

3.4. SBOM and Scan Management

The Scan tab (triggered from the SBOM tab) displays all performed scans with details:

Status, Source, Started, Triggered By, Duration, Total, Critical, High, Medium, Low, Actions (Download/Delete), and includes a Refresh button.

Testing confirmed:

- Accurate rendering of scan results and counts
- Correct operation of Download, Delete, and Refresh actions
- Proper error handling for missing or failed downloads

3.5. Vulnerability Report and Management

After selecting a scan, the Vulnerability Report lists all detected vulnerabilities with columns: CVE, Severity, Package, Version, Fixed In, Description, Actions (Create).

The Create button opens the Add Vulnerability form, where most fields are prefilled from scan data (Name, Status, Severity, Date of Discovery, Summary, CVE).

The form supports file attachments and has Cancel and Add buttons.

Tests covered:

- Correct prefilled data from scans
- Validation and field behavior
- Attachment upload/download/delete
- Record persistence and reflection in report view

3.6. Vulnerabilities Tab

The Vulnerabilities tab lists all added vulnerabilities in a table: Name, Status, Severity, Date of Discovery, Description.

Users can Add Vulnerability (same form as above but empty) or open existing ones for details.

The Vulnerability Details page includes:

- **Context Information** – main metadata and **Edit/Close** buttons
- **Extended Data** – system-generated fields (CVE, Created/Updated info)
- **Attachments** – file management (one per upload, with Download/Delete)

3.7. Incidents Tab

The Incidents module tracks security incidents with columns: Status, Classification, Attack Type, Severity, Date Detected, Reporter, Description, Actions (Delete).

The Add Incident form includes:

- **Mandatory fields:** Status, Classification, Attack Type, Reporter (prefilled), Date of Detection, Severity, Description, Scope
- **Optional fields:** Asset Details, Handling Date, Corrective Actions, Root Cause, Preventive Actions
- **Dynamic checkboxes:**
 - *Unlawful/Malicious* and *Cross-border impact*, each showing a required free-text field when checked
- **Attachments section** identical to other modules

Clicking a row opens **Incident Details** with an **Edit** button (to update info) and Close button (to mark as Complete).

Testing verified:

- Form validations and checkbox behavior
- Data persistence and edit correctness
- Status transition (Complete) handling
- Attachment upload/download/delete validation

Consistence between table and detail view.

4. Testing Methodologies Used

4.1. Manual Functional Testing

- Step-by-step validation of UI workflows, logic conditions, and form behavior
- Performed in modern desktop browsers to simulate end-user interaction
- Focused on validating business rules (e.g., eliminatory answers stop the form)

4.2. Exploratory Testing

- Performed around areas involving conditional branching, dynamic screen changes, and tab-based product sections
- Allowed identification of unexpected behaviors and edge cases not explicitly documented

4.3. Black Box Testing

- Tests were written from the perspective of an end user, without knowledge of the internal code.

Inputs and outputs were validated against expected behavior, especially in areas like form validation, progress tracking, and data filtering

4.4. Regression Testing

- Ensured that enhancements or fixes did not break previously working functionalities like Search and Filter options

5. Testing Methodologies Uses

5.1. Add a New Product from Scratch

Description:

When a user selects “Add a new product from scratch”, the system first displays an applicability check form, which the user must complete before continuing.

After completing the form:

| Product falls within the scope | System response |
|--------------------------------|---|
| Yes | The system displays “Add product” and “Try again” buttons |
| No | The system displays “Go home” and “Try again” buttons. |

Table 1: Add New Product

Choosing Add Product opens an empty product creation form where the user must fill in the following fields:

- Product Acronym / Short Name (required)
- Product Full Name (required)
- Product Version (required)
- Product Short Description (optional)

On this form:

- Two read-only fields display results from the first survey.
- A **“Retake Survey”** button allows users to redo the applicability check.

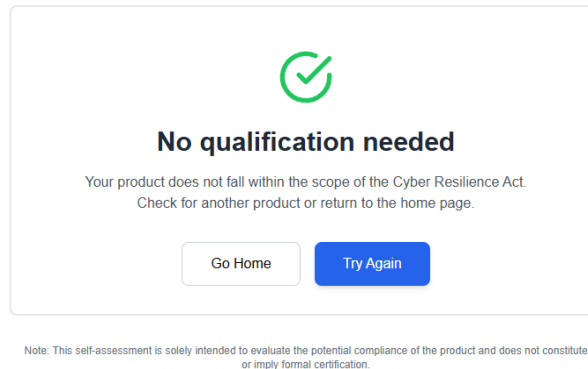


Figure 1: No qualification needed

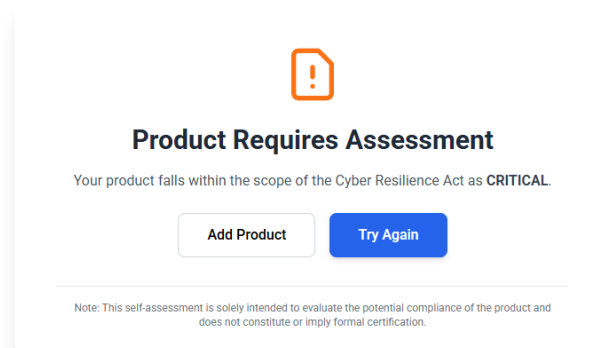


Figure 2: Product Requires Assessment

Provide some initial information about your product

Cached Applicability Check
Applicability Check - 11/4/2025

Category
Critical

Retake Survey

Product Acronym *

Product Name *

Product Version *

Product Short Description

[Back](#)
[Create](#)

Figure 3: Add Product Menu

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|---------------|--|-------------------------------------|--|--|
| TC-PRD-ADD-01 | "Add a new product from scratch" displays applicability check form | User logged in | Click Add a new product from scratch | Applicability check form appears as the first step |
| TC-PRD-ADD-02 | Users can proceed only after completing applicability form | Applicability form displayed | Fill required fields → Continue | Applicability result screen is displayed |
| TC-PRD-ADD-03 | In-scope result shows correct buttons | Applicability result = in scope | Complete applicability form so it falls within scope | Buttons displayed: Add Product and Try again |
| TC-PRD-ADD-04 | Out-of-scope result shows correct buttons | Applicability result = out of scope | Complete applicability form so it's outside scope | Buttons displayed: Go home and try again |
| TC-PRD-ADD-05 | "Add Product" opens the product creation form | Applicability result = in scope | Click Add Product | Product form opens with empty fields; required fields marked |
| TC-PRD-ADD-06 | Survey result summary fields are displayed above the product form | Product form opens | — | Two read-only survey result fields visible above form |
| TC-PRD-ADD-07 | Survey result fields show correct values from the first survey | Product form opens | Compare displayed values with first survey answers | Both fields correctly reflect the original survey results |
| TC-PRD-ADD-08 | Survey result fields are read-only | Product form opens | Attempt to edit or focus survey result fields | Fields are non-editable (read-only or disabled) |
| TC-PRD-ADD-09 | "Retake Survey" button is visible and enabled on product form | Product form opens | — | Retake Survey button visible and active |
| TC-PRD-ADD-10 | Retake Survey (with unsaved changes) prompts for confirmation | Product form has unsaved data | Modify any field → Click Retake Survey | Confirmation dialog warns about unsaved changes (Yes/No) |
| TC-PRD-ADD-11 | Retake Survey (confirm) returns to applicability form | Confirmation shown | Click Yes/Continue | Navigated back to applicability form; product form closed |
| TC-PRD-ADD-12 | "Try again" (in-scope path) returns to applicability form | Applicability result = in scope | Click Try again | Applicability form reloads for a new input |
| TC-PRD-ADD-13 | "Try again" (out-of-scope path) returns to applicability form | Applicability result = out of scope | Click Try again | Applicability form reloads for a new input |

| | | | | |
|---------------|--|-------------------------------------|--|---|
| TC-PRD-ADD-14 | "Go home" (out-of-scope path) navigates to home screen | Applicability result = out of scope | Click Go home | User navigated to home/main dashboard; flow ends |
| TC-PRD-ADD-15 | Applicability form validation blocks incomplete submission | Applicability form opens | Leave mandatory fields empty → Click Continue | Inline validation messages shown; cannot proceed |
| TC-PRD-ADD-16 | Required product fields are clearly marked | Product form opens | — | Acronym, Full Name, Version marked required; Short Description optional |
| TC-PRD-ADD-17 | Save succeeds with only required fields filled | Product form opens | Fill required fields → Click Save | Product successfully created and visible in list/details |
| TC-PRD-ADD-18 | Save blocked when required fields missing/whitespace only | Product form opens | Leave a required field blank or whitespace → Click Save | Save blocked; inline validation errors shown |
| TC-PRD-ADD-19 | Optional Short Description field behaves as optional | Product form opens | Leave Short Description empty → Click Save | Product saved successfully; description stored as empty |
| TC-PRD-ADD-20 | Back does not create product | Product form open with unsaved data | Click Back | No product created; no data saved |
| TC-PRD-ADD-21 | Data integrity verified after save | Product saved | Open product details page | All fields display correctly; optional description appears only if provided |

Table 2: Add New Product from Scratch – Executed and Passed Test

5.2. Add a New Product from Cache

Description:

When a user selects **“Add a new product from cache”**, the system loads data retained from a previously completed **applicability check (cached)** and displays the **product creation form** directly.

All fields are pre-populated using cached values from the last applicability survey, and the user can review or modify them before saving. After reviewing, the user clicks **Save** to finalize the new product creation.

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|-----------------|--|----------------------------------|---|---|
| TC-PRD-CACHE-01 | “Add a new product from cache” opens pre-populated product form | Cached applicability data exists | Click Add a new product from cache | Product creation form opens directly with fields pre-filled |
| TC-PRD-CACHE-02 | Cached data correctly populates product fields | Cached applicability data exists | Open product form | Acronym, Full Name, Version fields show data from previous applicability check |
| TC-PRD-CACHE-03 | Survey result summary fields display cached values above the form | Cached applicability data exists | Open product form | Two read-only survey result fields are visible and correctly reflect cached results |
| TC-PRD-CACHE-04 | Survey result fields are read-only | Product form opens | Try editing or focusing on survey result fields | Fields remain non-editable (read-only/disabled) |
| TC-PRD-CACHE-05 | “Retake Survey” button is visible and enabled | Product form opens | — | “Retake Survey” button visible and active |
| TC-PRD-CACHE-06 | Retake Survey clears cached data and returns to applicability form | Product form opens | Click Retake Survey | User navigated to applicability form; cached data cleared or refreshed |
| TC-PRD-CACHE-07 | Users can edit pre-filled product fields before saving | Product form opens | Modify any of the pre-filled fields → Click Save | Product saved successfully with updated field values |
| TC-PRD-CACHE-08 | Users can save products without changing cached values | Product form opens | Click Save without editing fields | Products created successfully using cached data |
| TC-PRD-CACHE-09 | Required field validation still applies | Product form opens | Clear a required field → Click Save | Save blocked; inline validation errors shown |

| | | | | |
|-----------------|--|--------------------|---|---|
| TC-PRD-CACHE-10 | Optional Short Description field behaves as optional | Product form opens | Leave Short Description empty → Click Save | Product saved successfully; description stored as empty |
| TC-PRD-CACHE-11 | Back does not create product | Product form opens | Click Back | No product created; no data saved |
| TC-PRD-CACHE-12 | Data integrity verified after save | Product saved | Open product details page | All saved fields match displayed values; optional fields stored correctly |

Table 3: Add New Product from Cache – Executed and Passed Test

5.3. Add a New Product by Loading an Existing Product

Description:

When the user selects **“Add a new product by loading an existing product”**, the system prompts them to choose an existing product. After selection, the **product creation form** opens **pre-populated** only with the **applicability check data** from the selected product.

The user reviews the pre-filled applicability information displayed above the form and can then fill in new product details manually before clicking **Save** to create the product.

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|----------------|---|---------------------------------------|---|---|
| TC-PRD-LOAD-01 | Entry point opens product selector | User logged in; at "Add product" area | Click from existing product | A selector dialog appears to choose an existing product |
| TC-PRD-LOAD-02 | Product list loads existing products | Existing products available | Observe selector | List displays existing products with identifiers (name) |
| TC-PRD-LOAD-03 | Handle empty state when no existing products | No products available | Open selector | Empty state message appears with guidance; no selection possible |
| TC-PRD-LOAD-04 | Selecting a product opens pre-populated form | Selector open; products available | Select a product | Product creation form opens with survey result fields populated from the selected product's applicability check |
| TC-PRD-LOAD-05 | Survey summary fields show correct applicability data | Product form opens | Compare displayed survey values with source product's applicability check | Category field correctly matches the selected product's applicability data |
| TC-PRD-LOAD-06 | Survey summary fields are read-only | Product form opens | Attempt to edit survey fields | Fields are non-editable (read-only or disabled) |
| TC-PRD-LOAD-07 | Users can enter new product details | Product form opens | Fill Acronym, Full Name, Version; optionally fill Short Description | All fields accept input as expected |
| TC-PRD-LOAD-08 | Required product fields are enforced | Product form opens | Leave any required field empty → Save | Save blocked; inline validation displayed for missing fields |
| TC-PRD-LOAD-09 | Save succeeds when required fields are filled | Product form opens | Fill required fields → Save | Product created successfully and appears in product list/details |
| TC-PRD-LOAD-10 | Optional Short Description field behaves as optional | Product form opens | Leave Short Description empty → Save | Product saved successfully with empty description |
| TC-PRD-LOAD-11 | Cancel or back does not create product | Product form opens | Click Back | No product created; user navigates away safely |
| TC-PRD-LOAD-12 | Data integrity verified after save | Product saved | Open product details page | Saved data matches user input; optional description appears only if provided |

Table 4: Add New Product by loading an Existing Product – Executed and Passed Test

5.4. Team Compliance Assessment

Description:

Each Area contains one or more Requirements; each Requirement contains one or more mandatory Questions (Free-Text or Yes/No), each with evidence upload. Users navigate with Next/Back. A Requirement can have exactly one Status (chosen only after *all* its questions are answered).

New: The Requirement screen has a Reset button that clears all question answers and evidence for the current Requirement and returns it to an unanswered state. Also, each Requirement header shows an area progress bar: $\% = (\text{Completed Requirements in Area} / \text{Total Requirements in Area}) \times 100$. A Requirement counts as completed when all its questions are answered and a Status is set.

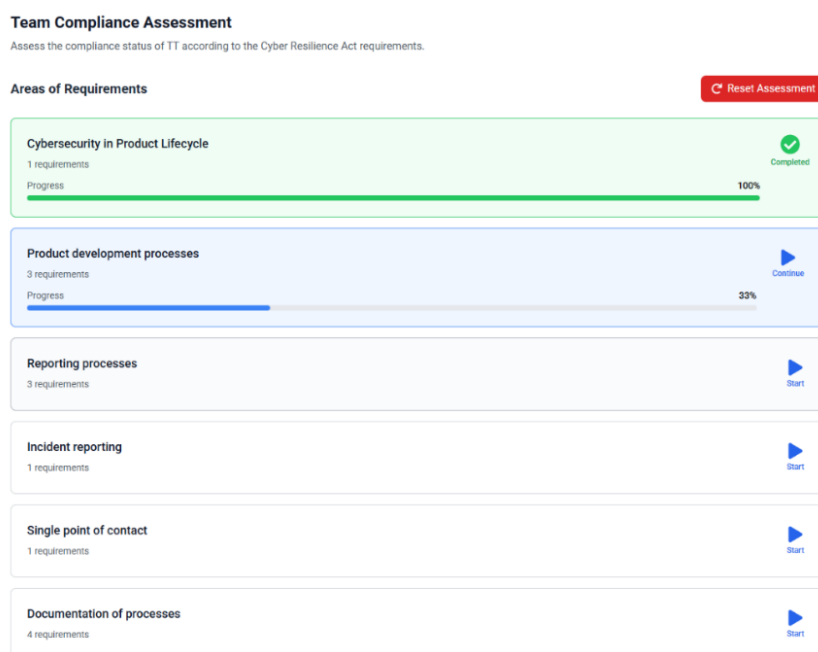


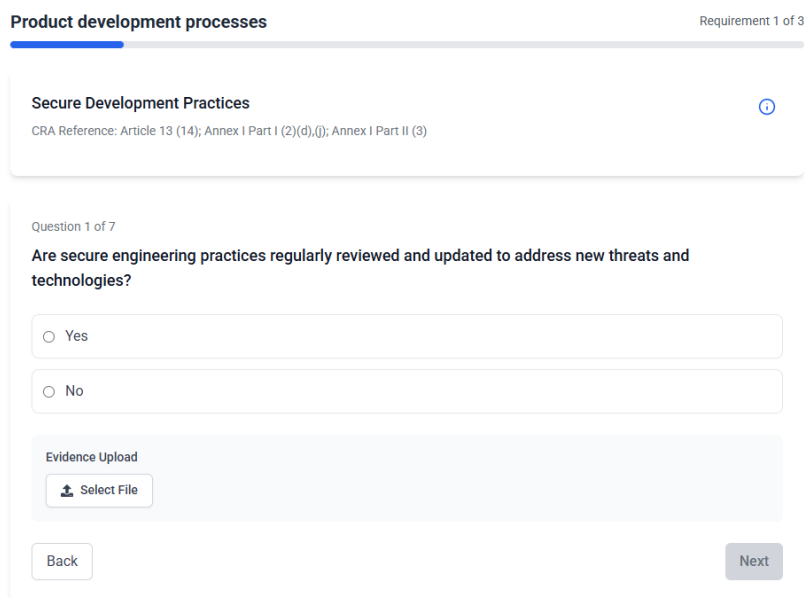
Figure 4: Team Compliance Assessment Page

Key Features:

- Question types: Free Text (single text area) and Yes/No (radio buttons).
- Evidence: accepts multiple files per question
- Requiredness: every question is mandatory
- Status set is enumerated (e.g., Compliant / Partially Compliant / Not Compliant / Not Applicable).
- Navigation: Next moves to next question; Back moves to previous; prevents leaving unanswered mandatory questions.
- Reset Assessment feature (reset button)
- Progress bar indicating % of finished requirements in an area

Team Compliance Assessment

Assess the compliance status of TT according to the Cyber Resilience Act requirements.



The screenshot displays a web-based assessment interface. At the top, a header bar shows 'Product development processes' on the left and 'Requirement 1 of 3' on the right. Below this, a section titled 'Secure Development Practices' is shown, with a CRA Reference: Article 13 (14); Annex I Part I (2)(d),(j); Annex I Part II (3). The main content area is titled 'Question 1 of 7' and contains the question: 'Are secure engineering practices regularly reviewed and updated to address new threats and technologies?'. Below the question are two radio button options: 'Yes' and 'No'. Underneath the options is an 'Evidence Upload' section with a 'Select File' button. At the bottom of the form are 'Back' and 'Next' buttons.

Figure 5: Example of Yes/No question

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|-----------|---|--------------------------------------|--|--|
| TC-REQ-01 | Requirement displays its list of questions | Requirement with N questions | Open Requirement | Displays Q1 of N, showing question type and required markers |
| TC-REQ-03 | Question types render correctly | Requirement with both types | View Free-Text and Yes/No questions | Free-Text shows input; Yes/No shows radio group |
| TC-REQ-04 | Initial state has no answers/evidence | New Requirement | Open it | Inputs empty, radios unselected, no evidence |
| TC-REQ-05 | Area progress bar is visible on header | Area with ≥ 1 Requirement | Open Requirement | Progress bar visible with percentage label |
| TC-REQ-06 | Area progress % calculated and labelled correctly | Area has 4 Requirements, 1 completed | Open any Requirement | Progress shows 25% (1/4); label matches value |
| TC-REQ-10 | "Next" blocked if Free-Text unanswered | On Free-Text question | Leave empty \rightarrow click Next | Inline error shown; cannot advance |
| TC-REQ-11 | "Next" blocked if Yes/No unanswered | On Yes/No question | Leave unselected \rightarrow click Next | Inline error; cannot advance |
| TC-REQ-12 | "Next" allowed when question answered | On any question | Provide valid answer \rightarrow Next | Advances to next question |
| TC-REQ-13 | "Back" retains previous answer | On Q2 with answer | Click Back | Q1 still shows previous answer |
| TC-REQ-15 | Cannot bypass unanswered question via direct navigation | TOC present | Click later question while current unanswered | Navigation blocked or prompted |
| TC-REQ-30 | Only one Yes/No option selectable | Yes/No visible | Select Yes, then No | Only latest selection remains |
| TC-REQ-32 | Selection persists across navigation | Question answered | Next \rightarrow Back | Same option remains selected |
| TC-REQ-40 | Upload accepts allowed types | Evidence control visible | Upload PDF/JPG/DOCX | Files listed with name/size |
| TC-REQ-41 | Rejects disallowed file types | Evidence control visible | Upload EXE | Error displayed; not listed |

| | | | | |
|-----------|---|-------------------------------------|--------------------------------------|---|
| TC-REQ-42 | Enforces file size limit | Limit configured | Upload file > limit | Error shown; file not attached |
| TC-REQ-43 | Allows single file uploads | Control visible | Upload 2–3 files | Only 1 file can be selected for upload |
| TC-REQ-44 | Remove uploaded file | Evidence attached | Click Remove | File removed successfully |
| TC-REQ-45 | Evidence persists across navigation | Evidence added | Next → Back | Evidence remains attached |
| TC-REQ-46 | Evidence is not mandatory | Evidence not required | Attempt to continue without evidence | Next question is displayed |
| TC-REQ-53 | Reset confirmation dialog appears | Answers/evidence/status exist | Click Reset | Confirmation dialog warns that all data will be cleared |
| TC-REQ-54 | Cancel Reset keeps data intact | Confirmation shown | Click Cancel | Nothing changes |
| TC-REQ-55 | Confirm Reset clears all answers and evidence | Requirement contains data | Confirm Reset Assessment | All inputs and evidence cleared |
| TC-REQ-56 | Reset clears Status and disables Status controls | Requirement has Status | Confirm Reset Assessment | Status removed; selector disabled |
| TC-REQ-57 | Reset decreases Area progress accordingly | Requirement contributed to progress | Confirm Reset Assessment | Progress decreases to reflect change |
| TC-REQ-61 | Status selection enabled after all questions answered | All questions answered | Open Status section | Four options visible and enabled |
| TC-REQ-62 | Only one Status selectable | Status visible | Select one, then another | Only last one remains active |
| TC-REQ-63 | Save stores selected Status | Status chosen | Click Save | Requirement saved with chosen Status |
| TC-REQ-66 | Area progress increases when Requirement completed | Area=4, completed=1 | Complete and set Status | Progress updates correctly (e.g., 50%) |
| TC-REQ-67 | Progress does not increase until Status set | All Qs answered, no Status | Observe progress | Progress remains unchanged until Status selected |

| | | | | |
|-----------|---|--------------------------------|---|---|
| TC-REQ-70 | Multiple Requirements listed for Area | Area has ≥ 2 Requirements | Open Area | All Requirements shown with progress indicators |
| TC-REQ-71 | Each Requirement enforces its own Status | Area open | Complete Req A, leave Req B partial | Req A complete; Req B incomplete |
| TC-REQ-72 | Area supports multiple Requirement statuses | Two Requirements complete | Set different statuses | Area summary shows both |
| TC-REQ-73 | Switching between Requirements retains data | Working in Req A | Switch to Req B \rightarrow return to Req A | Answers/evidence remain saved |
| TC-REQ-74 | Area progress reflects Requirement completion | Area view | Complete Requirements | Progress % updates correctly |
| TC-REQ-75 | Progress updates dynamically when another Requirement completes | Current Requirement open | Complete a different Requirement | Progress bar updates automatically |
| TC-REQ-76 | Progress remains accurate after Reset | Two Requirements complete | Reset one | Progress recalculates correctly |
| TC-REQ-77 | Single Requirement Area displays 0% or 100% | Area has 1 Requirement | Toggle Status | Progress updates from 0% to 100% |
| TC-REQ-78 | Progress rounding and format consistent | Area with 3 Requirements | Complete 1 Requirement | Progress shows 33% (rounded per rule) |

Table 5: Team Compliance Assessment – Executed and Passed Test

5.5. Team Compliance Assessment Dashboard

Description:

The Dashboard summarizes Requirement completion across a team. It shows:

- **Progress Bar** = % of Requirements finished,
- **Pie Chart Evaluation Status** = split of Evaluated vs Not Evaluated Requirements
- **Pie Chart Conformity Status Breakdown** = count distribution of Requirements by Status (the four statuses).
- **Export to PDF** button generates a PDF containing Overall Progress, a Status Summary, and a Requirements list with Name, Evaluation state (Evaluated/Not), and Conformity (the chosen status for finished items).

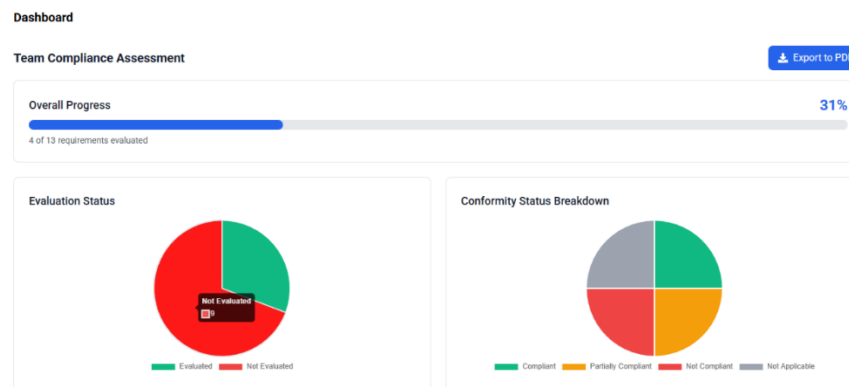


Figure 6: Team Compliance Assessment Dashboard

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|------------|---|---------------------------------------|---------------------|--|
| TC-DASH-01 | Dashboard loads with progress bar and both pie charts | Area exists | Open Dashboard | Progress bar, Evaluations Status pie, and Conformity Status pie are visible; no errors |
| TC-DASH-10 | Progress formula correctness | Area with 8 Requirements (3 finished) | Open Dashboard | Progress shows 37–38%; label shows 3/8 |
| TC-DASH-11 | 0% and 100% edge cases | Areas with all or none finished | Open Dashboard | Displays correct 0% or 100% |
| TC-DASH-12 | Live update of progress | Another tab completes a Requirement | Keep Dashboard open | Progress bar updates automatically or after refresh |
| TC-DASH-13 | Progress rounding consistency | 1/3 finished | Open Dashboard | Displays 33% (or 33.3%) consistently |

| | | | | |
|------------|---|---|--|---|
| TC-DASH-20 | Evaluations Status Pie (A) – slice counts correct | 10 Requirements, 4 evaluated | Open Dashboard | Pie shows Evaluated=4, Not Evaluated=6 |
| TC-DASH-21 | Evaluations Status Pie (A) – percentage accuracy | Same as above | Hover or view legend | Displays 40% Evaluated, 60% Not Evaluated; sums ≈100% |
| TC-DASH-22 | Evaluations Status Pie (A) – zero state | No evaluated Requirements | Open Dashboard | Evaluated = 0, Not Evaluated = Total; chart renders properly |
| TC-DASH-23 | Evaluations Status Pie (A) – full completion | All evaluated | Open Dashboard | Evaluated=Total, Not Evaluated=0 |
| TC-DASH-24 | Evaluations Status Pie (A) – color/legend stability | Any dataset | Reload page | Colors and labels consistent on reload |
| TC-DASH-30 | Conformity Status Pie (B) – slice counts correct | Area with mixed statuses | Open Dashboard | Each slice count matches number of Requirements with that conformity status |
| TC-DASH-31 | Conformity Status Pie (B) – percentage accuracy | Same dataset | Hover or view legend | Percentages sum ≈100%; consistent rounding |
| TC-DASH-32 | Conformity Status Pie (B) – zero-count status handling | One status unused | Open Dashboard | Status with 0 count hidden or shown as 0 (per design) |
| TC-DASH-33 | Conformity Status Pie (B) – color stability per status | Multiple reloads | Reload Dashboard | Each status keeps its assigned color consistently |
| TC-DASH-40 | Cross-check: Progress vs Evaluations Pie | Any data | Compare progress and Evaluations Pie (A) | Progress % = Evaluated / Total; Pie A counts match |
| TC-DASH-41 | Cross-check: Conformity Pie totals vs Evaluations Pie | Any data | Compare Pie B with Pie A | Sum of Pie B slices = Evaluated count in Pie A |
| TC-DASH-42 | Updates after Requirement Reset | A completed Requirement reset | Refresh Dashboard | Evaluated count decreases; both pies and progress update correctly |
| TC-DASH-43 | Updates after status change | Change conformity status of Requirement | Refresh Dashboard | Pie B updates: Evaluations Pie A and Progress unchanged (still evaluated) |
| TC-DASH-50 | Export button visible and enabled | Dashboard open | Observe | Export to PDF button visible and enabled |

| | | | | |
|------------|--|--|----------------------------|--|
| TC-DASH-51 | PDF generates successfully | Any dataset | Click Export to PDF | PDF downloaded; logical filename (compliance-assessment-teamName-date.pdf) |
| TC-DASH-52 | PDF includes Overall Progress | PDF generated | Open PDF | Section includes progress % and counts (e.g., "3 of 8 completed – 37%") |
| TC-DASH-53 | PDF includes Status Summary | PDF generated | Open PDF | Section lists all conformity statuses with counts and optionally percentages |
| TC-DASH-54 | PDF includes Requirements list | PDF generated | Open PDF | Table columns: Requirement Name, Evaluated/Not, Conformity |
| TC-DASH-55 | PDF "Evaluated/Not" logic correct | Mixed finished/unfinished Requirements | Export PDF | Evaluated = finished; Not Evaluated = unfinished |
| TC-DASH-56 | PDF "Conformity" logic corrects | Mixed data | Export PDF | Finished show conformity status; unfinished show "—" or "N/A" |
| TC-DASH-57 | PDF matches on-screen data | Dashboard values noted | Export → Open PDF | Counts & percentages match on-screen charts at export time |
| TC-DASH-58 | PDF handles many Requirements (pagination) | 200+ Requirements | Export → Open PDF | Multi-page PDF rendered; no layout clipping |
| TC-DASH-71 | Handles no-data / empty Area | Area with 0 Requirements | Open Dashboard | Progress = 0%; Evaluations Pie = all Not Evaluated; Conformity Pie empty; friendly message |
| TC-DASH-73 | Data changes mid-export | Update data during export | Export PDF → Open PDF | PDF snapshot reflects state at export moment |
| TC-DASH-80 | Percent rounding sums ≈100% | Uneven dataset | Open Dashboard | Pie values round correctly; total ~100% |
| TC-DASH-81 | Data consistency with Requirements views | Same Area viewed in Requirements | Compare both screens | Numbers match between Requirements and Dashboard |

Table 6: Team Compliance Assessment Dashboard – Executed and Passed Test

5.6. Scan Tabs

Description:

The Scans tab (distinct from the SBOM tab) lists previously triggered scans in a table. Scans are initiated via the Scan button located on the SBOM tab; this tab is read/act focused.

Scans can be triggered using the Scan button from the SBOM tab. The scans are listed in a table containing the following:

- **Status** (e.g., Pending, Running, Completed, Failed)
- **Source** (what triggered it: SBOM/Repo/Artifact/etc.)
- **Started** (timestamp)
- **Triggered By** (user/service)
- **Duration** (elapsed for completed/failed; live for running)
- **Total / Critical / High / Medium / Low** (finding counts)
- **Actions** (buttons: **Download**, **Delete**)

Top-right (or header) has a Refresh button that reloads the list and summary counts.

Products / Test suite / V007

V007

Delete Withdraw Edit

Status: **ACTIVE**

Release Date: 11/3/2025

Incidents: None

Vulnerabilities: 3 Open

Conformity Assessment

View Edit

Declaration of Conformity

View Download

Files SBOM Scans Vulnerabilities Incidents Task Version Log Repository

| STATUS | SOURCE | STARTED | TRIGGERED BY | DURATION | TOTAL | CRITICAL | HIGH | MEDIUM | LOW | ACTIONS |
|-----------|--------|-----------------|--------------|----------|-------|----------|------|--------|-----|-----------------|
| Completed | 0a7c3 | Nov 5, 03:37 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 5ea7c | Nov 5, 03:37 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 5ea7c | Nov 5, 03:37 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 0a7c3 | Nov 5, 03:37 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 5ea7c | Nov 5, 03:37 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 0a7c3 | Nov 5, 03:37 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 5ea7c | Nov 5, 03:37 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 0a7c3 | Nov 5, 03:36 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 5ea7c | Nov 5, 03:36 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |
| Completed | 0a7c3 | Nov 5, 03:36 PM | test calin | 0m 1s | 51 | 8 | 19 | 23 | 1 | Download Delete |

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Figure 7: Scans tab

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|------------|--|-----------------------------|--|--|
| TC-SCAN-01 | Scan tab loads with table and Refresh button | Project/Area exists | Open Scan tab | Table renders with headers in correct order; Refresh button visible |
| TC-SCAN-02 | Empty state (no scans yet) | No scans exist | Open Scan tab | Empty-state message shown; no rows displayed |
| TC-SCAN-03 | Scan triggered from SBOM appears in list | SBOM tab accessible | Trigger a scan from SBOM → Open Scan tab | New scan row appears with Status=Pending/Queued |
| TC-SCAN-04 | Column presence and order | — | Inspect header row | Headers exactly: Status, Source, Started, Triggered By, Duration, Total, Critical, High, Medium, Low, Actions |
| TC-SCAN-06 | Started timestamp formatting/time zone | Rows exist | Inspect Started column | Correct timestamp format and time zone; consistent with system settings |
| TC-SCAN-07 | Duration updates while running | A scan is Running | Observe Duration | Duration dynamically increments until scan completes |
| TC-SCAN-08 | Duration fixed after completion | A scan Completed/Failed | Observe Duration | Duration stops updating once scan finishes |
| TC-SCAN-09 | Severity totals integrity | Row with counts | Compare Total to sum | Total = Critical + High + Medium + Low |
| TC-SCAN-10 | Large count formatting | Row with big counts | Inspect counts | Large numbers formatted with thousand separators; zero values shown as "0" |
| TC-SCAN-15 | Pagination functionality | > page size scans exist | Navigate pages | Page changes update correctly; data accurate for each page |
| TC-SCAN-16 | Manual Refresh Reloads data | Rows exist | Click Refresh | Data reloads successfully; table preserves sort/filter state |
| TC-SCAN-17 | Refresh updates running scan to completed | A scan finishes during test | Click Refresh | Status updates to Completed with final Duration and counts |
| TC-SCAN-20 | Download file properties | Completed scan available | Click Download | File downloads successfully with correct filename, extension, and type |
| TC-SCAN-25 | Delete requires confirmation dialog | Deletable row exists | Click Delete | Confirmation dialog appears warning about irreversible action |

| | | | | |
|------------|---|-----------------------------------|--------------------------------------|---|
| TC-SCAN-26 | Cancel delete keeps row intact | Confirmation dialog open | Click Cancel | Row remains in table; no deletion occurs |
| TC-SCAN-27 | Confirm delete removes row | Deletable scan available | Click Delete → Confirm | Row removed from table; pagination adjusts automatically |
| TC-SCAN-31 | Multiple concurrent scans handled correctly | Trigger 2+ scans | Refresh periodically | Each scan row updates independently; no data crossover |
| TC-SCAN-32 | Failed scan display behavior | A scan fails | Observe row | Status=Failed ; Duration fixed; counts set to 0 or "N/A"; Download disabled per spec |
| TC-SCAN-36 | Performance with large dataset | 1000+ scans | Open tab and scroll/page | UI remains responsive; actions functional |
| TC-SCAN-71 | Empty or no-data area handling | Area has 0 scans | Open Scan tab | Progress/scan list empty; friendly message shown ("No scans available") |
| TC-SCAN-73 | Data changes mid-download/export | Scan data updates during download | Download scan report | Report reflects consistent data snapshot at download time |

Table 7: Team Compliance Assessment Dashboard – Executed and Passed Test

5.7. Vulnerability Report & Add Vulnerability

Description:

From the **Scan tab**, selecting a scan opens the **Vulnerability Report**: a table listing vulnerabilities with columns CVE, Severity, Package, Version, Fixed In, Description, Actions.

In **Actions, Create** opens the **Add Vulnerability page**. The Add Vulnerability form is shown with inputs (some prefilled):

- Name (prefilled)
- Status (prefilled),
- Severity (prefilled),
- Date of Discovery (prefilled),
- Summary (prefilled),
- Advisory IDs (empty),
- Assigner (current user preselected),
- checkbox “Has the product been made available on the territory of other Member States?” (unchecked by default)
- CVE (prefilled)
- Attachment section,
- Cancel / Add buttons.

Vulnerability Scan Report

[Download](#)

Overview

Critical
8

High
19

Medium
23

Low
1

Negligible
0

Scan Date
11/6/2025, 3:37:33 PM

Grype Version
0.86.1

Triggered By
test calin

Vulnerabilities

51 vulnerabilities found

| CVE | SEVERITY | PACKAGE | VERSION | FIXED IN | DESCRIPTION | ACTIONS |
|---------------------|----------|---------|---------|---------------------------|---------------------------|--------------------------|
| GHSA-whqj-8f3w-67p5 | Critical | vm2 | 3.9.17 | <3.9.18 (unknown) | vm2 Sandbox Escape ... | + Create |
| GHSA-g644-9gfr-q4q4 | Critical | vm2 | 3.9.17 | <3.9.19 (unknown) | vm2 Sandbox Escape ... | + Create |
| GHSA-cohq-frgv-rjh5 | Critical | vm2 | 3.9.17 | <3.9.19 (unknown) | vm2 Sandbox Escape ... | + Create |
| GHSA-p5gc-c584-j6v | Medium | vm2 | 3.9.17 | <3.9.18 (unknown) | vm2 vulnerable to Insp... | + Create |
| GHSA-3h5v-q93c-6h6q | High | ws | 7.4.6 | >=7.0.0,<7.5.10 (unkno... | ws affected by a DoS ... | + Create |
| GHSA-3h5v-q93c-6h6q | High | ws | 7.4.6 | >=7.0.0,<7.5.10 (unkno... | ws affected by a DoS ... | + Create |

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Figure 8: Vulnerability Scan Report page

Add New Vulnerability

Context Information

Version

V007

Product

Test juice

Vulnerability Information



Pre-filled from Scan Report

This vulnerability form has been pre-filled with information from a vulnerability scan report. You can review and modify the details before creating the vulnerability.

Name *

base64url - GHSA-rvg8-pwq2-xj7q

Status *

Pending

Severity *

Medium

Date of Discovery *

11/07/2025

Summary *

Out-of-bounds Read in base64url (Package: base64url@0.0.6)

Advisory IDs

Assigner

test calin

☐ Has the product been made available on the territory of other Member States?

CVE

GHSA-rvg8-pwq2-xj7q

Attachments

[Add Attachment](#)

[Cancel](#)

[Add](#)

Figure 9: Add New Vulnerability from the Scan report

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|------------|---|--|---|--|
| TC-VULN-01 | Open Vulnerability Report from a scan | A completed scan with vulnerabilities exists | From Scan tab, click a scan row | Vulnerability Report opens |
| TC-VULN-02 | Report columns and order | Report is open | Inspect header row | Columns exactly: CVE, Severity, Package, Version, Fixed In, Description, Actions |
| TC-VULN-03 | Row data renders correctly | Report has vulnerabilities | Inspect rows | Each row displays valid data in all columns |
| TC-VULN-04 | Actions column shows Create button | Report opens | Inspect Actions column | Each row has a visible Create button |
| TC-VULN-05 | Download button visible on top of report | Report opens | Observe top-right header area | Download button displayed on Vulnerability Report |
| TC-VULN-06 | Download file properties | Report open with vulnerabilities | Click Download | File download starts with correct filename and type Json |
| TC-VULN-07 | Create opens Add Vulnerability form | Report opens | Click Create on a row | Add Vulnerability form opens |
| TC-VULN-08 | Prefilled fields visible | Form opened via Create | Observe inputs | Name, Status, Severity, Date of Discovery, Summary, CVE prefilled with data from selected row |
| TC-VULN-09 | Assigner defaults to current user | Form open | Observe Assigner field | Current logged-in user preselected |
| TC-VULN-10 | Advisory IDs field empty | Form open | Observe Advisory IDs input | Field empty and ready for entry |
| TC-VULN-11 | Member States checkbox default | Form open | Observe checkbox "Has the product been made available on the territory of other Member States?" | Checkbox unchecked by default |
| TC-VULN-12 | Attachment section visible | Form open | Scroll to Attachments | Upload component visible and active |
| TC-VULN-13 | Editable fields | Form open | Edit Name, Summary, change Status/Severity | Edits accepted; dropdowns show valid options |

| | | | | |
|------------|--------------------------------------|---------------------------|--|--|
| TC-VULN-14 | Required-field validation | Form open | Clear a required field (e.g., Name) → click Add | Inline validation appears; cannot save until corrected |
| TC-VULN-15 | CVE field edit rule | Form open | Try editing CVE | Behaves per design (read-only or validated if editable) |
| TC-VULN-16 | Advisory IDs format validation | Form open | Enter invalid Advisory ID → click Add | Validation error displayed; cannot save |
| TC-VULN-17 | Checkbox value saved correctly | Form open | Toggle checkbox → click Add | Saved record reflects correct checkbox state |
| TC-VULN-18 | Successful Add | All required fields valid | Click Add | Success message; new vulnerability created and linked |
| TC-VULN-19 | Cancel discards changes | Form edited | Click Cancel | Returns to report; no new record created |
| TC-VULN-20 | Attachments: allowed file types | Form open | Upload PDF/PNG/DOCX | Files appear in list with name and size |
| TC-VULN-21 | Attachments: reject disallowed files | Form open | Upload EXE | Error shown; file not attached |
| TC-VULN-22 | Attachments: enforce file size limit | Limit configured | Upload file exceeding limit | Error displayed; file rejected |
| TC-VULN-23 | Multiple attachments and removal | Form open | Upload several files, remove one | All valid files shown; removed file disappears |
| TC-VULN-24 | Attachments persist after save | Files attached | Click Add → open created record | Attached files visible in saved record |
| TC-VULN-25 | New vulnerability visible in report | Creation succeeded | Return to Vulnerability Report | New vulnerability entry displayed in table |
| TC-VULN-26 | Data integrity after creation | Record created | Open created record/details | All saved fields (Assigner, Dates, Status, Severity, Checkbox, Attachments) match user input |

Table 8: Vulnerability Report & Add Vulnerability – Executed and Passed Test

5.8. Vulnerabilities Tab

Description:

The Vulnerabilities tab displays all vulnerabilities that have been added in the system.

It contains a table with the following columns:

- Name
- Status
- Severity
- Date of Discovery
- Description
- Actions

Files

SBOM

Scans

Vulnerabilities

Incidents

Task

Version Log

Repository

Vulnerabilities

Add Vulnerability

| NAME | STATUS | SEVERITY | DATE OF DISCOVERY | DESCRIPTION | ACTIONS |
|---------------------------------|--------------|----------|-------------------|---------------|-------------------|
| base64url - GHSA-rvg8-pwq2-xj7q | Receipt | Medium | Nov 7, 2025 | Out-of-bounds | <div>Delete</div> |
| crypto-js - GHSA-xwcq-pm8m-clvf | Post Release | Critical | Nov 6, 2025 | crypt | <div>Delete</div> |
| asdasd | Post Release | Low | Nov 6, 2025 | teasd | <div>Delete</div> |
| test | Pending | Low | Nov 3, 2025 | test | <div>Delete</div> |

Figure 10: Vulnerabilities tab

Above the table, there is an “**Add Vulnerability**” button.

When clicked, it opens the **Add Vulnerability form** (same layout as the previous one from the Vulnerability Report), but none of the fields are prefilled. Also, for each vulnerability row there is a **Delete button**, which removes that vulnerability.

Clicking on any row in the table opens the **Vulnerability Details page**, which is divided into three sections:

1. **Context Information:**
 - Vulnerability Name
 - Status
 - Severity

- Affected Version
- Affected Product
- Affected Vendor
Contains two buttons:
 - **Edit** – opens an edit pop-up allowing the user to modify the vulnerability information
 - **Close** – sets the vulnerability's **Status** to *Post release*

2. **Extended Data:**

- CVE
- Description
- Created By
- Updated By
- Created At
- Updated At

3. **Attachments:** contains an “**Add Attachment**” button that allows the user to upload one file at a time. The files are then displayed in the table with the previously mentioned columns.

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|-------------|---|----------------------------------|-------------------------------------|--|
| TC-VULNS-01 | Verify that the Vulnerabilities tab loads with table and Add button | Project/Area exists | Open the Vulnerabilities tab | Table is displayed; Add Vulnerability button visible above it |
| TC-VULNS-02 | Verify table column headers and order | Vulnerabilities tab open | Inspect table header row | Headers appear exactly as: Name, Status, Severity, Date of Discovery, Description |
| TC-VULNS-03 | Verify row data is correctly displayed | Existing vulnerabilities present | Inspect table rows | Each row shows valid data for Name, Status, Severity, Date, and Description |
| TC-VULNS-04 | Verify empty state when there are no vulnerabilities | No vulnerabilities exist | Open the Vulnerabilities tab | Empty state message shown; no rows visible |
| TC-VULNS-05 | Verify Add Vulnerability button | Vulnerabilities tab open | Click Add Vulnerability | Add Vulnerability form opens; all fields are |

| | | | | |
|-------------|--|------------------------------|---|---|
| | opens an empty Add form | | | empty (no prefilled data) |
| TC-VULNS-06 | Verify all fields and default states on Add Vulnerability form | Add Vulnerability form opens | Observe all fields | All fields are empty; dropdowns unselected; checkbox unchecked by default |
| TC-VULNS-07 | Verify required field validation | Add form open | Leave required fields empty → click Add | Inline validation appears; saving blocked until required fields are completed |
| TC-VULNS-08 | Verify successful vulnerability creation | All required fields filled | Click Add | Success notification displayed; vulnerability added to the list |
| TC-VULNS-09 | Verify cancel button discards changes | Form filled | Click Cancel | Navigates back to list; no data saved |
| TC-VULNS-10 | Verify new vulnerability appears in the list after creation | Vulnerability created | Return to Vulnerabilities tab | Newly added vulnerability appears in table with correct data |
| TC-VULNS-11 | Verify clicking a vulnerability opens the details page | Vulnerability exists | Click on a row | Vulnerability Details page opens |
| TC-VULNS-12 | Verify fields in Context Information section | Details page open | Observe Context Information section | Displays: Name, Status, Severity, Affected Version, Affected Product, Affected Vendor |
| TC-VULNS-13 | Verify Edit button opens edit pop-up | Details page open | Click Edit | Edit pop-up opens with current vulnerability information |
| TC-VULNS-14 | Verify required field validation in edit pop-up | Edit pop-up open | Clear required field → click Save | Inline validation displayed; save blocked |
| TC-VULNS-15 | Verify successful update of vulnerability | Edit pop-up open | Modify fields → click Save | Pop-up closes: updated information displayed in Context Information section |
| TC-VULNS-16 | Verify Close button changes status to Post release | Details page open | Click Close ; confirm action if prompted | Status field changes to Post release |
| TC-VULNS-17 | Verify updated status appears in vulnerabilities list | Vulnerability closed | Return to Vulnerabilities tab | Status in list updated to Post release |
| TC-VULNS-18 | Verify Extended Data fields are displayed correctly | Details page open | Observe Extended Data section | Displays: CVE, Description, Created By, Updated By, Created At, Updated At |
| TC-VULNS-19 | Verify Updated by and Updated At fields refresh on edit | Vulnerability edited | Observe Extended Data section | Updated By and Updated At fields reflect last modification |

| | | | | |
|-------------|---|-------------------------|---|--|
| TC-VULNS-20 | Verify Created by and Created remain unchanged | Vulnerability edited | Observe Extended Data section | Created By and Created At remain consistent with original record |
| TC-VULNS-18 | Verify Extended Data fields are displayed correctly | Details page open | Observe Extended Data section | Displays: CVE, Description, Created By, Updated By, Created At, Updated At |
| TC-VULNS-19 | Verify Updated by and Updated At fields refresh on edit | Vulnerability edited | Observe Extended Data section | Updated By and Updated At fields reflect last modification |
| TC-VULNS-20 | Verify Created by and Created remain unchanged | Vulnerability edited | Observe Extended Data section | Created By and Created At remain consistent with original record |
| TC-VULNS-21 | Verify Add Attachment button is displayed | Details page open | Scroll to Attachments section | Add Attachment button visible |
| TC-VULNS-22 | Verify uploading one file per action | Details page open | Click Add Attachment → select one file | One file uploaded successfully; appears in attachments table |
| TC-VULNS-23 | Verify file type validation | Details page open | Upload unsupported file (e.g., .exe) | Error displayed; file rejected |
| TC-VULNS-24 | Verify file size validation | File size limit defined | Upload file exceeding size limit | Error displayed; file not uploaded |
| TC-VULNS-25 | Verify attachments table headers and order | Attachment uploaded | Inspect table headers | Headers: Name, Type, Date Added, Added By, Actions |
| TC-VULNS-26 | Verify attachment data displayed correctly | Attachment uploaded | Inspect row in table | Displays correct file name, type, date, and added by user |
| TC-VULNS-27 | Verify Download button downloads file | Attachment uploaded | Click Download in Actions | File downloads successfully; correct content and filename |
| TC-VULNS-28 | Verify Delete button removes file | Attachment uploaded | Click Delete → confirm | File removed from table and storage |
| TC-VULNS-29 | Verify multiple uploads over time | Details page open | Upload file A → upload file B | Both files listed in table with correct order |
| TC-VULNS-30 | Verify attachment persistence | Attachment uploaded | Leave details page → return | File remains listed in Attachments table |

Table 9: Vulnerability Tabs – Executed and Passed Test

5.9. Incidents

Description:

The **Incidents** tab displays all created incidents in a table with the following columns:

- Status
- Classifications
- Attack Type
- Severity
- Date Detected
- Reporter
- Description
- Actions:
 - View Button
 - Delete button
- Add Incident

Files SBOM Scans Vulnerabilities Incidents Task Version Log Repository

| Incidents | | | | | | | Add Incident |
|-----------|----------------|-------------|----------|---------------|------------|-------------|---|
| STATUS | CLASSIFICATION | ATTACK TYPE | SEVERITY | DATE DETECTED | REPORTER | DESCRIPTION | ACTIONS |
| Completed | General | Others | Low | Nov 7, 2025 | test calin | asd | View Delete |
| Pending | General | Others | Low | Nov 7, 2025 | test calin | asdasd | View Delete |

Figure 11: Incidents tab

The Add Incident buttons open another page:

Add New Incident

Context Information

Version
 V007

Product
 TEst juice

Incident Information

Status *
 Pending

Classification *
 General

Attack Type *
 Others

Asset Details

Reporter *
 test calin

Date of Detection *
 11/07/2025

Severity *
 Low

Handling Date
 mm/dd/yyyy

Description *

Corrective Actions

Root Cause

Scope *

Preventive Actions

☐ Is the incident suspected of being caused by unlawful or malicious acts?

☐ May the incident have a cross-border impact?

Attachments

Add Document

Cancel Add

Mandatory Fields:

- Status
- Classification
- Attack Type
- Reporter (prefilled with current user)
- Date of Detection
- Severity
- Description
- Scope

Optional Fields:

- Asset Details
- Handling Date
- Corrective Actions
- Root Cause
- Preventing Actions

Figure 12: Add New Incident tab

Checkboxes are unchecked by default:

- *Is the incident suspected of being caused by unlawful or malicious acts?* → reveals a mandatory free-text input when checked
- *May the incident have a cross-border impact?* → reveals a mandatory free-text input when checked

At the bottom of the page, there's an **Attachment section** (same as in Vulnerabilities Section) allowing one file upload per action, displayed in a table with the same column options.

Clicking a row opens the **"Incident Details"** page, showing all fields from creation and two top buttons:

- **Edit:** opens edit page with editable fields.
- **Close:** sets Status to "Complete"

Incident Details

EditClose

Classification

Attack Type

Asset Details

GeneralOthers-

Extended Incident Data

Reporter

Date of Detection

test calin (calin.toma+30102025@ovesenterprise.com)

November 7, 2025

Published Date

Severity

November 7, 2025

Low

Handling Date

-

Description

asd

Corrective Actions

-

Root Cause

-

Scope

asdada

Preventive Actions

-

Unlawful Act Description

test

Cross-Border Impact Details

test

Attachments

Add Document

No attachments

Figure 13: Incident Details page

Test cases executed and passed

| Test ID | Description | Precondition | Steps | Expected Results |
|-----------|---|---------------------|---------------------------|---|
| TC-INC-01 | Verify that the Incidents tab loads correctly | Project/Area exists | Open Incidents tab | Table displays with all incidents; Add Incident button visible |
| TC-INC-02 | Verify the table column headers and order | Incidents tab open | Inspect table header row | Headers appear in this order: Status, Classification, Attack Type, Severity, Date Detected, Reporter, Description, Actions |

| | | | | |
|-----------|--|-----------------------------|--|---|
| TC-INC-03 | Verify that existing incidents are displayed correctly | One or more incidents exist | Inspect table rows | Each row shows valid data for all columns |
| TC-INC-04 | Verify empty state when no incidents exist | No incidents exist | Open Incidents tab | Empty-state message displayed; no rows visible |
| TC-INC-05 | Verify Delete button is displayed for each row | Incidents exist | Observe Actions column | Each row contains a Delete button |
| TC-INC-06 | Verify Delete button removes the incident | Deletable incident exists | Click Delete → confirm | Incident removed from table; no longer visible |
| TC-INC-07 | Verify clicking a row opens the Incident Details page | Incident exists | Click a row | Incident Details page opens showing all incident data |
| TC-INC-08 | Verify Add Incident button opens empty form | Incidents tab open | Click Add Incident | Add Incident page opens; all fields empty except Reporter |
| TC-INC-09 | Verify Reporter is prefilled with current user | Add page open | Inspect Reporter field | Reporter field automatically populated with current logged-in user |
| TC-INC-10 | Verify all other fields are initially empty/unselected | Add page open | Inspect all fields | Text inputs empty, dropdowns unselected, checkboxes unchecked |
| TC-INC-11 | Verify required field validation | Add page open | Leave required fields empty → click Add | Inline validation messages appear; form not submitted |
| TC-INC-12 | Verify valid date entry for Date of Detection | Add page open | Enter valid date | Accepted without error |
| TC-INC-13 | Verify “Unlawful/Malicious” checkbox behavior | Add page open | Check the box | A free-text input appears and becomes mandatory |
| TC-INC-14 | Verify validation for “Unlawful/Malicious” free-text | Add page open | Check the box, leave text empty → click Add | Validation error shown; cannot save |
| TC-INC-15 | Verify “Cross-border impact” checkbox behavior | Add page open | Check the box | A free-text input appears and becomes mandatory |
| TC-INC-16 | Verify validation for “Cross-border impact” free-text | Add page open | Check the box, leave text empty → click Add | Validation error shown; cannot save |
| TC-INC-17 | Verify both checkboxes and text fields work together | Add page open | Check both boxes, complete both text fields, fill required data → click Add | No validation errors; record created successfully |
| TC-INC-18 | Verify optional fields can be filled | Add page open | Fill optional fields (Asset Details , | Values accepted; no validation triggered |

| | Handling Date, etc.) | | | |
|---------------|--|--------------------------------|---|---|
| TC- INC-19 | Verify successful creation of incident | All mandatory fields completed | Click Add | Success message displayed; incident created |
| TC- INC-20 | Verify Cancel discards data | Form has inputs | Click Cancel | Return to Incidents tab; no data saved |
| TC- INC-21 | Verify new incident appears in table | Incident created | Return to Incidents tab | New incident row appears with correct data |
| TC- INC-22 | Verify details page shows all fields correctly | Incident exists | Open incident details | All fields (mandatory + optional) displayed with correct values |
| TC- INC-23 | Verify Edit button opens edit page | Details open | Click Edit | Edit page opens with prefilled data |
| TC- INC-24 | Verify required validation on edit | Edit page open | Clear required field → click Save | Inline validation message; save blocked |
| TC- INC-25 | Verify dynamic checkbox validation on edit | Edit page open | Check one or both checkboxes without text → click Save | Validation errors shown for missing text fields |
| TC- INC-26 | Verify successfully edit updates data | Edit page open | Modify field(s) → click Save | Updated values appear in details view |
| TC- INC-27 | Verify Close button sets status to Complete | Details open | Click Close ; confirm action | Status changes to Complete and persists |
| TC- INC-28 | Verify list reflects closed status | Incident closed | Return to Incidents tab | Status column shows Complete for that incident |
| TC- INC-29 | Verify Add Attachment button is visible | Details open | Scroll to Attachments section | Add Attachment button visible |
| TC- INC-30 | Verify single file upload per action | Details open | Click Add Attachment → select one file | File uploaded and displayed in table |
| TC- INC-31 | Verify file type validation | Details open | Upload unsupported file type (.exe) | Error message displayed; file not added |
| TC- INC-32 | Verify file size validation | Limit configured | Upload file exceeding limit | Error displayed; upload blocked |
| TC- INC-33 | Verify attachments table headers and data | Attachment exists | Inspect headers and row | Headers: Name, Type, Date Added, Added |

| | | | | |
|-----------|--|-------------------|-----------------------------------|---|
| | | | | By, Actions; values displayed correctly |
| TC-INC-34 | Verify Download button functionality | Attachment exists | Click Download | File downloads successfully with correct name/type |
| TC-INC-35 | Verify Delete button removes attachment | Attachment exists | Click Delete → confirm | Attachment removed from list |
| TC-INC-36 | Verify multiple uploads over time | Details open | Upload file A → upload file B | Both files listed in order added |
| TC-INC-37 | Verify attachments persist after navigation | Attachment exists | Leave details → return | File remains visible in attachments table |
| TC-INC-38 | Verify data consistency between list and details | Incident exists | Compare data from list vs details | Status, Classification, Attack Type, Severity, Date, Reporter, Description match |
| TC-INC-39 | Verify edited data reflected in list | Edit completed | Return to Incidents tab | Updated data visible in table |
| TC-INC-40 | Verify deleted incidents are no longer displayed | Incident deleted | Observe Incidents tab | Deleted incident removed from table |

Table 10: Incidents Tabs – Executed and Passed Test

6. Testing Objectives and Results Summary

6.1. Objective

The primary objective of this testing effort was to validate the overall reliability, accuracy, and functional integrity of the Product Management and Compliance Assessment Platform. The focus was on ensuring that all workflows operate as intended across the platform's key modules, including product compliance management, vulnerability tracking, and incident monitoring. The tests aimed to verify proper enforcement of business rules, correct handling of mandatory fields, accurate status transitions, and consistent persistence of data across all user interactions and navigation paths.

6.2. Results

Testing covered approximately 180 test cases spanning all functional modules of the platform. Functional test cases confirmed that:

- User interface components were rendered correctly and consistently across workflows,
- Mandatory validations operated as expected, preventing incomplete or invalid data entry,
- Attachments could be uploaded, downloaded, and managed without errors,
- Status changes for products, vulnerabilities, and incidents persisted correctly across navigation and updates,
- Reports and dashboards accurately reflected the underlying data, including progress, conformity, and evaluation metrics.

6.3. Key Outcomes

The testing effort demonstrates that the platform meets expected behavior and functional requirements for the management of products, vulnerabilities, and incidents. All critical workflows were validated successfully, ensuring that data entry, visibility, and lifecycle management processes are reliable and consistent. The system provides a robust foundation for operational use, with confirmed compliance with business rules, accurate reporting, and dependable workflow enforcement.

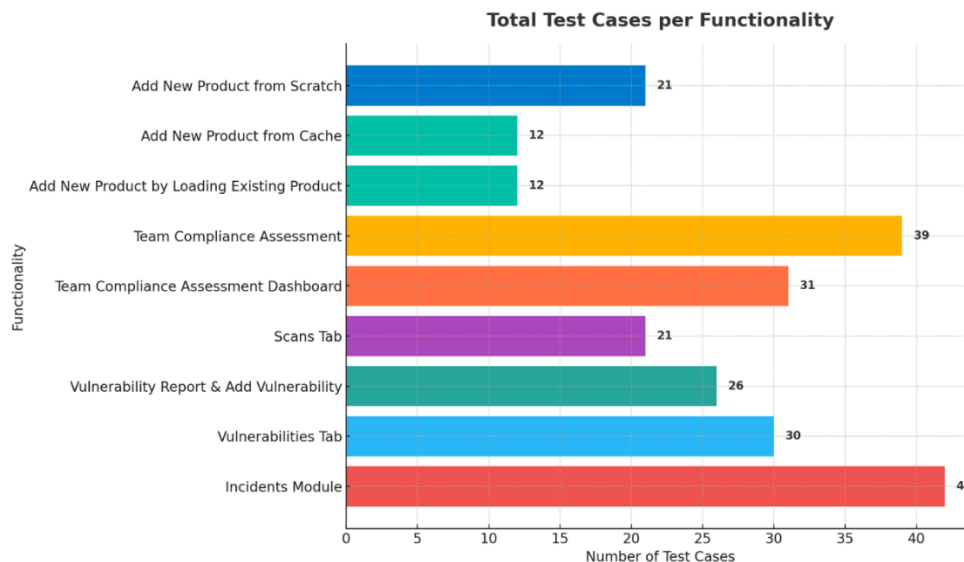


Figure 14: Total Test Cases per Functionality

7. Conclusion

The testing campaign comprehensively verified the Product Management and Compliance Assessment Platform's readiness for deployment.

All modules—from product setup through assessment tracking and reporting—were tested end-to-end to confirm that data integrity, business logic, and user interface behaviors align with requirements. The testing team executed manual, exploration, black box, and regression tests, ensuring full coverage of workflows and integrations.

Results demonstrated:

- Stable and consistent system behavior across all tested areas
- Correct enforcement of business rules and mandatory validations
- Reliable file management, including uploads and export reports
- Accurate and responsive dashboards and progress indicators
- Proper functionality of vulnerability and incident tracking features

No major blocking issues were observed. The platform is functionally sound, with validated workflows and robust handling of user operations, supporting its transition toward production or client acceptance phases.



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