


Security Dashboard - Report Generation

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 **Summary:** This page provides instructions for configuring and using the Report Generation feature.

Introduction

The Report Generation feature allows you to **generate reports on the fly direct** from the CAST Security Dashboard interface. Various reports can be generated, however, some require some [configuration](#) before they will work.

Reports

Report Category **Security Reports** ▼ Report Type **OWASP 2017 Summary...** ▼

Accessing the Report Generation feature

From the Side Menu bar, click the following icon:



Available report categories

Various report categories are available:



Category	Enabled by default?	CAST Report Generator for Dashboards required?	Additional configuration required?	Output format	Available reports
Security Reports	✓	✓	✓ See section below.	Same format as the associated CAST Report Generator templates.	<p>Available reports include:</p> <ul style="list-style-type: none"> OWASP 2017 Summary Report OWASP 2013 Summary Report OWASP 2017 Detailed Report OWASP 2013 Detailed Report CWE Top 25 Summary Report CISQ Top 22 Summary Report <p><i>Note that the default list of reports can be customized.</i></p>
Industry Compliance Reports	✓	✓	✓ See section below	Same format as the associated CAST Report Generator templates.	<p>Available reports include:</p> <ul style="list-style-type: none"> STIG V4R8 Summary Report STIG V4R8 Detailed Report PCI DSS V3.1 Summary Report NIST SP800 53R4 Summary Report <p><i>Note that the default list of reports can be customized.</i></p>
Miscellaneous Reports	✓	✗	✗	<p>Inline in the browser</p> <p><i>Can be downloaded in Excel format.</i></p>	<p>Available reports include:</p> <p>Report Type List of removed vio... ▼</p> <ul style="list-style-type: none"> Select a report type List of removed violations List of new violations Top cyclomatic complexity * High fanout Top cyclomatic complexity * Low documentation Top rules with the highest improvement opportunities 50 rules with the largest decrease in the number of violations 50 rules with the largest increase in the number of violations 50 rules with the largest decrease in the percentage of violations 50 rules with the largest increase in the percentage of violations

Custom Reports			See section below .	Same format as the associated CAST Report Generator templates.	This category enables you to define your own custom reports via CAST Report Ger
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Security and Industry Compliance Reports

This category provides reports on various industry recognized standards such as:

- CISQ
- CWE
- OWASP
- STIG (Security Technical Implementation Guide)
- PCI (Payment Card Industry)
- NIST (National Institute of Standards and Technology)
- OMG (Object Management Group)

Configuration process

These reports are based on templates provided with [CAST Report Generator](#) and therefore [CAST Report Generator for Dashboards \(v. 1.9.0\)](#) must be present on the **server running Apache Tomcat** hosting your **Security Dashboard** in order for the reports to function. In addition the **report.properties** file in your deployed Dashboard must be modified.

See [CAST Report Generator - CAST Report Generator for Dashboards](#) for more detailed instructions about the configuration process.

Generation process

Choose a report type from the **Security Reports** or **Industry Compliance Reports** category and click the **Generate Report** button:

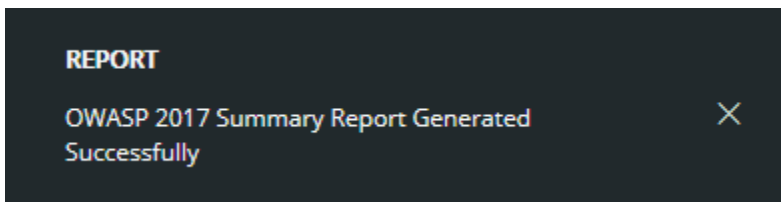
Report Category	Security Reports ▼	Report Type	OWASP 2017 Summary... ▼	GENERATE REPORT
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The report will be generated and auto downloaded to the default "downloads" folder used by your browser. Reports are generated using the same format as the associated CAST Report Generator templates. The report file name should contain the:

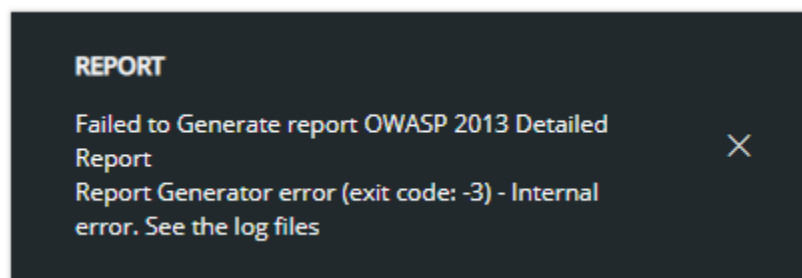
- application name
- snapshot version
- report type

For example: **MEUDON-Computed on 201903061327-OWASP-2017-Top10 - Summary.docx** (MEUDON is an Application name).

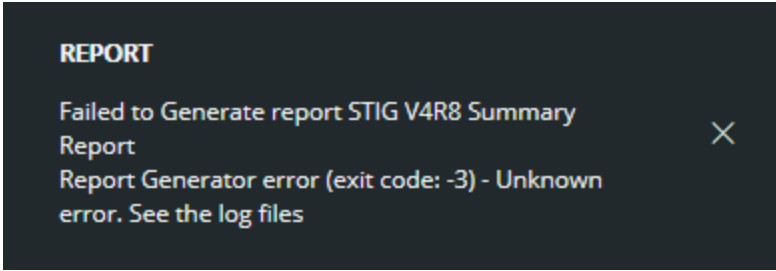
A notification message is displayed when the report is generated:



If the report fails to generate, a notification is also displayed with the error message. Please refer this page about error messages handling: [Report Service - 1.9.0](#).

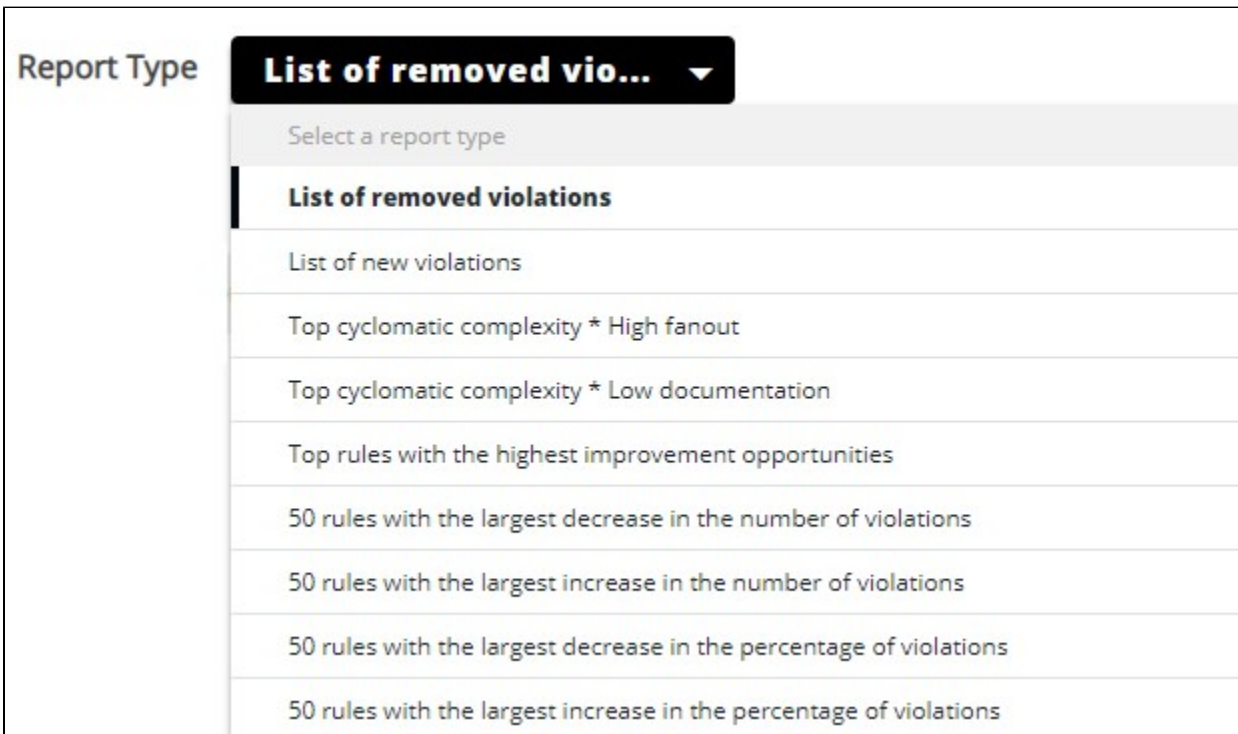


This example shows that CAST Report Generator for Dashboards has not been configured:

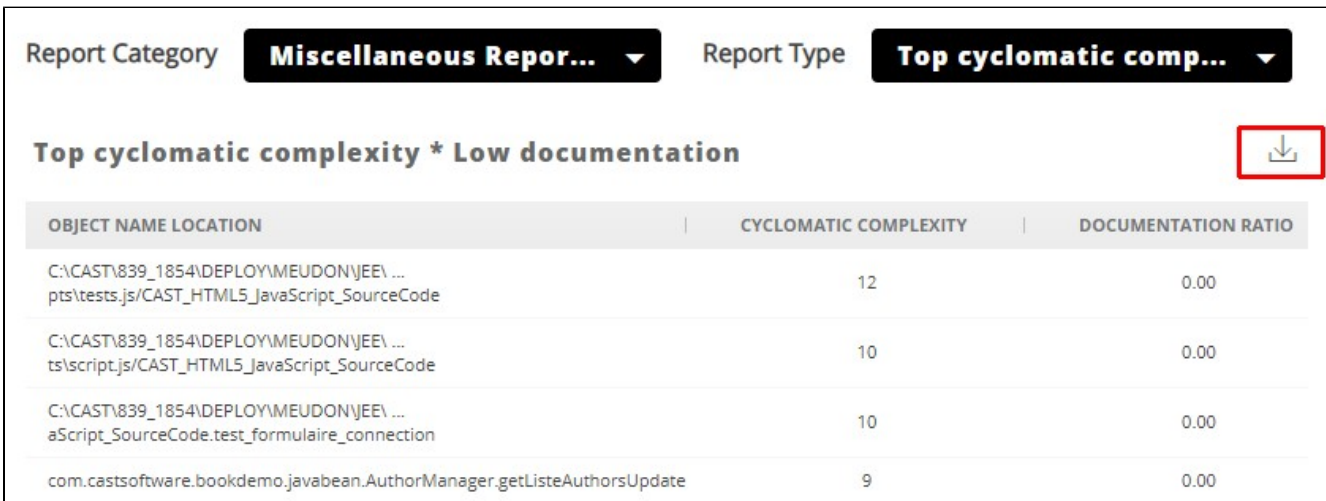


Miscellaneous Reports








This category provides reports that can easily show where the biggest changes in violations between snapshots have occurred:



These reports are provided **inline in the browser** and **do not require CAST Report Generator for Dashboards** nor any **additional configuration**. Reports can be downloaded in **Excel** format:



Drill down to violation source code is also possible for some reports:

Report Category	Miscellaneous Repor...	Report Type	List of new violati...
List of new violations			
TOTAL QUALITY INDEX ▾ 			
RULE NAME	OBJECT NAME LOCATION	STATUS	
Avoid Artifacts with High Cyclomatic Complexity	[D:\CASTMS\Deploy\839\839_quality\My Package\BATCH].BFA100P	added	 
Avoid Artifacts with High Essential Complexity	[D:\CASTMS\Deploy\839\839_quality\My Package\BATCH].BFA100P	added	 
Avoid Artifacts with SQL statement including subqueries	[D:\CASTMS\Deploy\839\839_quality\My Package\BATCH].BFA100P	added	 

Custom Reports

This category enables you to define your own custom reports via CAST Report Generator templates. The category is disabled by default (i.e. it does not contain any report templates). The templates you want to generate must be present on the server hosting Apache Tomcat in the "Templates" sub folder of your [CAST Report Generator for Dashboards](#) deployment location.

Adding custom reports

To enable and define the reports for the category, edit the following file:

```
%CATALINA_HOME%\webapps\CAST-Security\security\resources\ced.json  
For v. 1.18: CATALINA_HOME\webapps\CAST-Security\security\resources\ed.json
```

Find the following configuration section:

```
{  
  "id": "custom",  
  "label": "Custom Reports",  
  "reportTemplates": []  
}
```

To add your report for a custom template called **Executive summary PPT.pptx**, **AEP Sample Report.xlsx** and **My Custom Template 2019.docx** change it as follows. Save the file and restart the host Apache Tomcat server for the changes to be applied:

```
{  
  "id": "custom",  
  "label": "Custom Reports",  
  "reportTemplates": [  
    {  
      "templateLabel": "Executive summary PPT",  
      "templateId": "Executive+summary+PPT",  
      "fileType": "pptx"  
    },  
    {  
      "templateLabel": "AEP Sample Report",  
      "templateId": "AEP+Sample+Report",  
      "fileType": "xlsx"  
    },  
    {  
      "templateLabel": "My Custom Template 2019",  
      "templateId": "My+Custom+Template+2019",  
      "fileType": "docx"  
    }  
  ]  
}
```



- Custom templates should be available in the Templates folder within the **CAST Report Generator for Dashboards deployment folder**, for example: **ReportGeneratorCLforAllIOS\Templates**.
- **templateLabel** is a free text, this is used in the drop down list in the dashboard.
- **templateId** should be the file name of the custom template name without the file extension and "+" signs in place of white space. For example, if your custom template name is **My Custom Template.docx** the **templateId** should be configured as **"templateId": "My+Custom+Template+2019"**.

Adding custom report categories



Note that custom report categories are available in version **1.11.0**.

Multiple Custom Report **categories can be added**, alongside the existing default "Custom Report" category. These custom categories can then be populated with custom reports in exactly the same way as the default "Custom Reports" category (see **Adding custom reports** above):



To add a custom report category, edit the following file:

```
%CATALINA_HOME%\webapps\CAST-Security\engineering\resources\ced.json  
For v. 1.18: CATALINA_HOME\webapps\CAST-Engineering\engineering\resources\ed.json
```

Find the following configuration section:

```
{  
  "id": "custom",  
  "label": "Custom Reports",  
  "reportTemplates": []  
}
```

First add a comma immediately at the end of the preceding section:

```
{  
  "id": "custom",  
  "label": "Custom Reports",  
  "reportTemplates": []  
},
```

Now add a new section for your category and give it a unique "label" (example shown below). Populate it with your custom templates - the custom report category and custom templates will then be available for generation.

```
{
  "id": "custom",
  "label": "Custom Reports",
  "reportTemplates": []
},
{
  "id": "CustomReport",
  "label": "Custom Reports_Category1",
  "reportTemplates": [
    {
      "templateLabel": "Custom report type1",
      "templateId": "CISQ++custom-+Summary",
      "fileType": "docx"
    },
    {
      "templateLabel": "Custom report type2",
      "templateId": "OWASP++custom-+Summary",
      "fileType": "docx"
    }
  ]
}
}
```

Generation process

Choose a custom report type from the **Custom Reports** category and click the **Generate Report** button:

Report Category	Custom Reports ▼	Report Type	My Custom Template ...	GENERATE REPORT
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