flexera

Software Vulnerability Manager

API User Guide

Legal Information

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Contents

1

Software Vulnerability Manager API Help Library

This API User Guide provides the API information for Flexera's Software Vulnerability Manager

Table 1-1 • Software Vulnerability Manager API Help Library

Topic	Content
API Introduction	This section describes how to access the API information.
Login API	This section provides the Software Vulnerability Manager API information for server login.
Completed Scan API Information	This section provides the Software Vulnerability Manager API information for Completed Scan API.
Host Smart Group API Information	This section provides the Software Vulnerability Manager API information for Host Smart Groups module.
Product Smart Group API Information	This section provides the Software Vulnerability Manager API information for Product Smart Groups module.
Advisory Smart Group API Information	This section provides the Software Vulnerability Manager API information for Advisory Smart Groups module.
Data API Information	This section provides the Software Vulnerability Manager API information for Devices.
Sample API Code	This section provides the sample PowerShell code to get Host details.

Additional Resources

See the following sections for information about Flexera:

- Product Support Resources
- Contact Information

- Legal Information

Product Support Resources

The following product resources are available to assist you:

- Flexera Support
- Flexera Product Documentation
- Flexera Community
- Flexera Learning Center

Flexera Support

For a list of phone numbers to contact Flexera Support as well as instructions for submitting a support case, see How to Contact Flexera Support in the Flexera Community.

Flexera Product Documentation

You can find user documentation for all Flexera products on the Flexera Product Documentation site:

https://docs.flexera.com

Flexera Community

On the Flexera Community site, you can quickly find answers to your questions by searching content from other customers, product experts, and thought leaders. You can also post questions on discussion forums for experts to answer. For each of Flexera's product solutions, you can access forums, blog posts, and knowledge base articles.

Flexera One Community: The Flexera One Community home page provides Flexera One-specific links to a Flexera One forum, new feature blogs, and more.

Flexera Learning Center

Flexera offers a variety of training courses—both instructor-led and online—to help you understand how to quickly get the most out of your Flexera products. The Flexera Learning Center offers free, self-guided, online training classes. You can also choose to participate in structured classroom training delivered as public classes. You can find a complete list of both online content and public instructor-led training in the Learning Center.

https://learn.flexera.com

Contact Information

Flexera is headquartered in Itasca, Illinois, and has offices worldwide. To contact us or to learn more about our products, visit our website at:

http://www.flexera.com

You can also follow us on social media:

- Twitter

- Facebook
- LinkedIn
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- Instagram

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2

API Introduction

The purpose of this document is to help customers leverage internal APIs used by Software Vulnerability Manager website to pull data via custom code. This document assumes the reader has some programming experience. A sample of code has been provided as an Appendix. These APIs provides a simple way to automate the data collection from Software Vulnerability Manager. Customers can choose to extend their custom code to access data across multiple login and across multiple partitions to create integrated reports. Customers could also choose to engage Flexera services to create maintainable custom reports.

API used in Software Vulnerability Manager are currently not restful. This means you have to provide login credentials for an account and derive a token that identifies the account.

This section provides an overview of the following API topics:

- How to Obtain the Token
- How to Use the API

How to Obtain the Token

You need to login using the Software Vulnerability Manager credentials to get the token.

For more information, see Login API Information

How to Use the API

Software Vulnerability Manager APIs are divided into below sections:

- Server URL
- `uid`
- `action`
- `which`
- `smartGroupTextType`

Sample API URL for **Product Smart Groups >> Overview & Configuration** is shown below:

```
https://csi7.secunia.com/csi/api/
?uid=zIw6KAA70AGELYjDJmjI2gjEt9WbKoPSRKhpLy9NRVdWzumsuXMNa0eEarcXa0To
&action=smart_groups
&which=menuSummary
&smartGroupTextType=product
```

Note • *Note the following:*

- *API may or may not have all the sections however few parameters like `smartGroupId`, `productID` from the JSON response from the parent API.*
- *Enter the token in the `uid` section.*

3

Login API

This API helps you to login to the Software Vulnerability Manager server and generate a token that can be used for subsequent transactions.

This section includes the following:

- Login API Information

Login API Information

The first step is to login to the Software Vulnerability Manager. The UID value received from the successful login must be used as a token in the subsequent transactions.

Information required to login is organized into the following tabs:

Table 3-1 • Login API Information

Requirement Type	Details
API	`https://csi7.secunia.com/csi/api/?uid=&action=manuallogin`
Method	POST
Parameters	• username • password ***Note*** • *Enter the SVM cloud login credentials.*

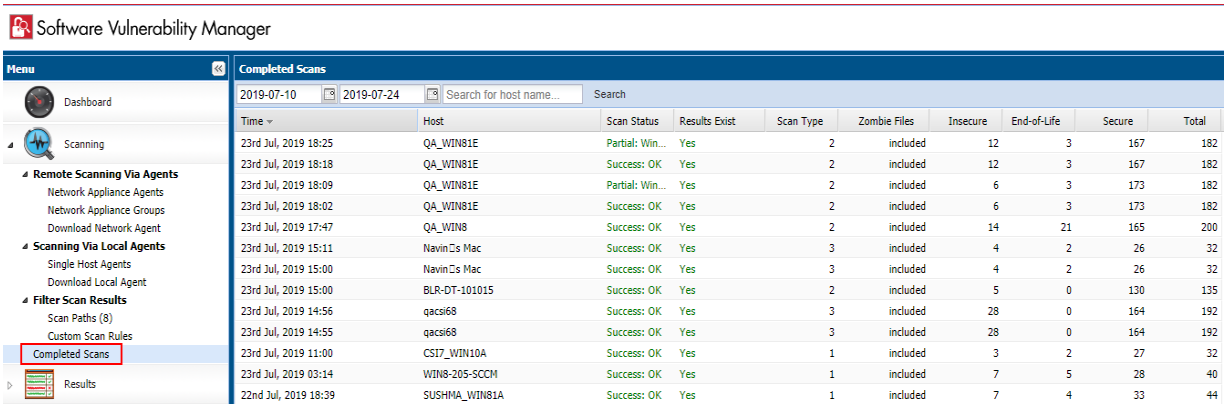
Table 3-1 • Login API Information

Requirement Type	Details
Response	**Valid Credential** `{"success":true,"response":1,"reason":"Login successful", "uid":"eNC4bgWbaumKxF0iqyRDcAsVOQ0NBpa5KxCynq5p3lzIzsrF8TKiYijIHxRfS4Bj"}`  ***Note*** • *The same UID is used as a token for the subsequent transactions.* *uid=<Token>.* **Invalid Credential** `{"success":true,"response":2,"reason":"Invalid Credentials."`
Received Information	UID value  ***Note*** • *UID value of successful response can be used in the API uid section for the subsequent transactions as shown below:* *https://csi7.secunia.com/csi/api/?uid=<UID of successful login reponse>*

4

Completed Scan API Information

This API helps to capture the data from Completed Scans page in Software Vulnerability Manager.



This section includes the following:

- List All the Host and Scan Status
- List Scan Result for Each Host

List All the Host and Scan Status

This section describes the API information to view the following details from the Completed Scan page:

- Host Details
- Scan Status
- Results Exist
- Scan Type
- Zombie Files
- Insecure

- End-of-Life
- Secure

The information required to view the **Completed Scans** is organized into the following tabs:

Table 4-1 • List of Host and Scan Status API Information

Requirement Types	Details
API URL	`https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>`  ***Note*** • *The value for <XYZ> in the above API is defined in the **Parameters** section.*
Parameters	• **uid** = UID Value taken from successful login see How to Obtain the Token. • **action** = csi_completed_scans • **which** = overview  ***Note*** • *These parameters have to be entered in the **<XYZ>** of above API respectively*
Sample Sort	`&sort=status_date&dir=DESC&sorters=%5B%7B%22field%22%3A%22status_date%22%2C%22direction%22%3A%22DESC%22%7D%5D&from=2019-07-09%2018%3A30%3A00&to=2019-07-24%2018%3A30%3A00&host=&start=0&limit=21`
Methods	GET
Sample JSON Response	`{"success":true,"error_code":0,"data":{"rows":[{"nsi_device_id":"736","status_date":"2019-07-23 12:55:41","host":"QA_WIN81E","langroup":"SCCM","scan_type":"2","short_msg":"Partial: Windows Update failed","long_msg":"The scan was partially successful. An error occurred during the Windows Update check.\\n\\nIt appears that the RPC service is not running or that the Host is firewalled to disallow access to the RPC service.\\n\\nNOTE: This means that certain Microsoft products for this Host, are listed with a potential incorrect security state.","no_insecure":"12","no_eol":"3","no_patched":"167","no_total":"182","no_zombie":"included","id":"18577","software_inspector_id":"21","results_exist":"1"},{"nsi_device_id":"736","status_date":"2019-07-23 12:48:14","host":"QA_WIN81E","langroup":"SCCM","scan_type":"2","short_msg":"Success: OK","long_msg":"Scan executed successfully","no_insecure":"12","no_eol":"3","no_patched":"167","no_total":"182","no_zombie":"included","id":"18576","software_inspector_id":"21","results_exist":"1"},...`
Received Information	Time, Host Name, Scan Status, Results Exist, Device ID, etc.

List Scan Result for Each Host

This section describes the API information to view the **List Scan Result for Each Host**.

The information required to view the **Scan Result** for each Host is organized into the following tabs:

Table 4-2 • Scan Result of Each Host API Information

Requirement Types	Details
API URL	`https://csi7.secunia.com/csi/api/?&uid=<xyz>&action=<xyz>&which=<xyz>&_dc=<xyz>&start=<xyz>&limit=<xyz>&sort=<xyz>&dir=<xyz>&eol=<xyz>&patched=<xyz>&insecure=<xyz>&device_id=<xyz>&sorters=product_name=<xyz>` ***Note*** *• The value for* ***<XYZ>*** *in the above API is defined in the* ***Parameters*** *section.*
Parameters	• **uid** = UID Value taken from successful login see How to Obtain the Token. • **action** = hosts • **which** = get_host_scan_results • **start**: 0 • **limit**: 27 • **sort**: product_name • **dir**: ASC • **eol**: true • **patched**: true • **insecure**: true • **device_id**: 1287 • **sorters**: product_name=ASC ***Note*** *• These parameters have to be entered in the* ***<XYZ>*** *of above API respectively.*
Methods	GET

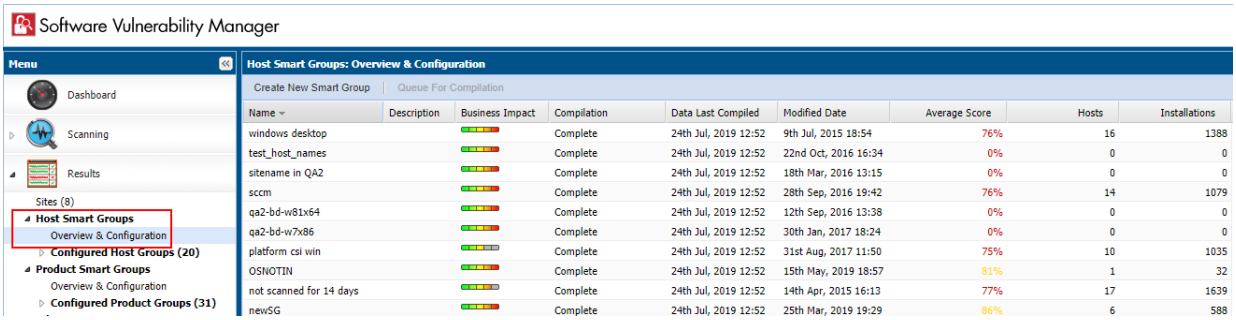
Table 4-2 • (cont.)Scan Result of Each Host API Information

Requirement Types	Details
Sample JSON Response	"success":true,"error_code":0,"data":[{"product_id":"62259","product_name":"7-zip 19.x","version":"19.0.0.0","state":"Secure","vuln_id":"-","vuln_title":"-","vuln_criticality":"-","vuln_threat_score":"","vuln_create_date":"-","vuln_count":"-","vuln_cvss_score":"","vuln_cvss3_score":"","vuln_cvss_score_all":"","path":"C:\\Program Files (x86)\\7-Zip\\7z.exe","vendor_name":"","direct_download":"","secure_version":"","missing_ms_kb":"","soft_type":"2","vpm_id":""},{"product_id":"62259","product_name":"7-zip 19.x","version":"19.0.0.0","state":"Secure","vuln_id":"-","vuln_title":"-","vuln_criticality":"-","vuln_threat_score":"","vuln_create_date":"-","vuln_count":"-","vuln_cvss_score":"","vuln_cvss3_score":"","vuln_cvss_score_all":"","path":"C:\\Program Files\\7-Zip\\7z.exe","vendor_name":"","direct_download":"","secure_version":"","missing_ms_kb":"","soft_type":"2","vpm_id":"8"},{"product_id":"56678","product_name":"Adobe Brackets 1.x","version":"1.14.0.0","state":"Secure","vuln_id":"-","vuln_title":"-","vuln_criticality":"-","vuln_threat_score":"","vuln_create_date":"-","vuln_count":"-","vuln_cvss_score":"","vuln_cvss3_score":"","vuln_cvss_score_all":"","path":"C:\\Program Files (x86)\\Brackets\\Brackets.exe",...
Received Information	Application Name, Version, State, SAID, Criticality, CVSS Base Score, Threat Score, etc.

5

Host Smart Group API Information

This API helps to capture the data from the Host Smart Groups page in Software Vulnerability Manager.



This section describes the API information for the following:

- Host Smart Groups API
- Configured Host Groups API

Host Smart Groups API

The information required to view the **Host Smart Groups** is organized into the following tabs:

Table 5-1 • Host Smart Group API Information

Requirement Types	Details
API	`https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&_dc=1563347478676` ***Note*** • *The value for* ***<XYZ>*** *in the above API is defined in the* ***Parameters*** *section.*

Table 5-1 • Host Smart Group API Information

Requirement Types	Details
Methods	GET
Parameters	• **uid** = UID Value taken from successful login. See How to Obtain the Token. • **action** = smart_groups • **which** = menuSummary • **smartGroupTextType** = host ***Note*** • *These parameters have to be entered in the* ***<XYZ>*** *of above API respectively.*
Response	{"success":true,"error_code":0, "data": {"rows":[{"id":"1","name":"All Hosts","editable":"0","description":"Smart Group containing all Hosts (default Flexera Smart Group). Note: Smart Group is NOT editable.","logic_type":"all","business_impact":"2","custom_columns":"","all_custom_columns":"1","date_modified":"2019-06-03 10:16:18","in_progress":"0","generate_asap":"0","compiled_time":"2019-07-16 10:31:35","hosts":"1","average_score":"88","num_installations":"219"}, {"id":"11","name":"Test1","editable":"1","description":"Test1","logic_type":"all","business_impact":"1","custom_columns":"","all_custom_columns":"1","date_modified":"2019-07-16 09:52:50","in_progress":"0","generate_asap":"0","compiled_time":"2019-07-16 10:31:35","hosts":"1","average_score":"88","num_installations":"219"}] ,"total":2}} ***Note*** • *The numerical value received as "id":"n" from the JSON response is the* `smartGroupId` *parameter for Configured Host Groups API, where "n" is the numerical number.*
Received Information	Name, Description, Business Impact, Compilation, Data Last Compiled, Average Score, Hosts, Installations, Host ID, Total number etc.

Configured Host Groups API

The information required to read the each **Host Smart Group** is organized into the following tabs:

Table 5-2 • Configured Host Groups API Information

Requirement Types	Details
API	`https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&smartGroupId=<xyz>&_dc=1563355275960&sort=host_name&dir=ASC&sorters=%5B%7B%22field%22%3A%22host_name%22%2C%22direction%22%3A%22ASC%22%7D%5D&host_name=&start=0&limit=21` ***Note*** *• The value for* ***<XYZ>*** *in the above API is defined in the* ***Parameters*** *section.*
Methods	GET
Parameters	• **uid** = UID Value taken from successful login see How to Obtain the Token. • **action** = smart_groups • **which** = getSmartGroupContents • **smartGroupTextType** = host • **smartGroupId** = "id":"n" value from the JSON response of Host Smart Groups API. ***Note*** *• The above parameters have to be entered in the* ***<XYZ>*** *of above API respectively*
Response	`{"success":true,"error_code":0,"data":{"rows":[{"nsi_device_id":"1","host_name":"BLR-LT-101247","score":"88","num_insecure":"22","num_eol":"4","num_patched":"193","num_installations":"219","group_name":"FLEXERA","software_inspector_id":"21","updated":"2019-07-12 07:07:26","software_inspector_version":"7.6.1.2"}],"total":"1"},"compiledTime":"2019-07-17 00:28:04"}`

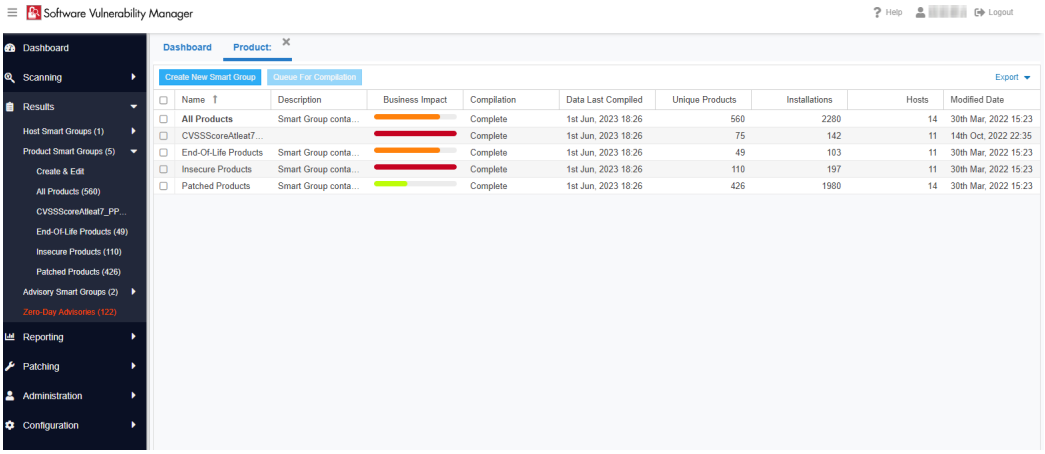
Table 5-2 • Configured Host Groups API Information

Requirement Types	Details
Received Information	The following information will be received in the API response: • "nsi_device_id"—Device Id • "host_name"—Name of Host • "score"—System score of host • "num_insecure"—Number of insecure installations • "num_eol"—Number of end-of-life installations • "num_patched"—Number of secure installations • "num_installations"—Total number of installations • "group_name"—Custom group or LAN group name • "software_inspector_id"—Agent types: ◦ 0: Agent imports but not scanned ◦ 11: Mac ◦ 21: Windows ◦ 31: SCCM ◦ 41: RHEL ◦ 100: AD imports but not scanned • "updated"—Last Scanned date • "software_inspector_version"—Agent Version

6

Product Smart Group API Information

This API helps to capture the data from the Product Smart Groups page in Software Vulnerability Manager.



This section describes the API information for the following:

- Product Smart Group API
- Configured Product Groups API
- View Installations API - Products

Product Smart Group API

This information required to read the **Product Smart Group** scan results is organized into the following tabs:

Table 6-1 • Product Smart Group API Information

Required Types	Details
API	`https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&smartGroupId=<xyz>&_dc=1563357098636&sort=name&dir=ASC&sorters=%5B%7B%22field%22%3A%22name%22%2C%22direction%22%3A%22ASC%22%7D%5D&start=0&limit=21` ***Note*** • *The value for **<XYZ>** in the above API is defined in the **Parameters** section.*
Methods	GET
Parameters	• **uid** = UID Value taken from successful login. See How to Obtain the Token. • **action** = smart_groups • **which** = overview • **smartGroupTextType** = product • **smartGroupId** = "id":"n" value from the JSON response of Product Smart Group API. ***Note*** • *The above parameters have to be entered in the **<XYZ>** of the above API respectively.*
Response	`{"success":true,"error_code":0,"data":{"rows":[{"id":"2","name":"All Products","editable":"0","description":"Smart Group containing all Products (default Flexera Smart Group). Note: Smart Group is NOT editable.","logic_type":"all","business_impact":"2","custom_columns":"","all_custom_columns":"1","num_products":"75","num_installations":"219","num_hosts":"1","date_modified":"2019-06-03 10:16:18","compiled_time":"2019-07-17 00:28:05","in_progress":"0","generate_asap":"0"},{"id":"10","name":"CVSS2 less 3","editable":"1","description":"","logic_type":"all","business_impact":"1","custom_columns":"","all_custom_columns":"1","num_products":"2","num_installations":"4","num_hosts":"1","date_modified":"2019-06-03 11:21:23","compiled_time":"2019-07-17 00:28:07","in_progress":"0","generate_asap":"0"},{"id":"8","name":"CVSS3 Less than4","editable":"1","description":"CVSS3 Less than4","logic_type":"all","business_impact":"1","custom_columns":"","all_custom_columns":"1","num_products":"1","num_installations":"2","num_hosts":"1","date_modified":"2019-06-03 10:33:49","compiled_time":"2019-07-17 00:28:08","in_progress":"0","generate_asap":"0"}`  ***Note*** • *The numerical value received as "id":"n" from the JSON response is the `smartGroupId` parameter for Configured Product Groups API, where “n” is the numerical number.*

Table 6-1 • Product Smart Group API Information

Required Types	Details
Received Information	Name, Description, Business Impact, Compilation, Data Last Compiled, Unique Products, Installations, Hosts, Modified Date, etc.

Configured Product Groups API

The information required to read the each **Product Smart Group** results is organized into the following tabs:

Table 6-2 • Configured Product Groups API Information

Requirement Types	Details
API	`https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&smartGroupId=<xyz>&_dc=1563425993660&start=0&limit=20&sort=product_name&dir=ASC&sorters=%5B%7B%22field%22%3A%22product_name%22%2C%22direction%22%3A%22ASC%22%7D%5D&product_name=` ***Note*** • *The value for* ***<XYZ>*** *in the above API is defined in the* ***Parameters*** *section.*
Methods	GET
Parameters	• **uid** = UID value taken from successful login. See How to Obtain the Token. • **action** = smart_groups • **which** = getSmartGroupContents • **smartGroupTextType** = product • **smartGroupId** = "id":"n" value from the JSON response of Product Smart Group API. ***Note*** • *These parameters have to be entered in the* ***<XYZ>*** *of the above API respectively*

Table 6-2 • Configured Product Groups API Information

Requirement Types	Details
Response	{"success":true,"error_code":0,"data":{"rows":[{"product_id":"60103","product_name":"7-zip 18.x","vendor_name":"","vuln_criticality":"-","vuln_id":"-","vuln_title":"-","vuln_cvss_score_all":"","vuln_cvss_score":"0","vuln_cvss3_score":"0","num_insecure":"0","num_eol":"0","num_patched":"2","num_installations":"2","num_hosts":"1","direct_download":"http:\/\/dl.secunia.com\/SPS\/7-Zip_18.05_32-bit_SPS.exe","secure_version":"18.05","soft_type":"2","vuln_threat_score":"","vpm_id":"9"},{"product_id":"16455","product_name":"ActiveTcl 8.x","vendor_name":"ActiveState","vuln_criticality":"-","vuln_id":"-","vuln_title":"-","vuln_cvss_score_all":"","vuln_cvss_score":"0","vuln_cvss3_score":"0","num_insecure":"0","num_eol":"0","num_patched":"1","num_installations":"1","num_hosts":"1","direct_download":"","secure_version":"","soft_type":"2","vuln_threat_score":"","vpm_id":""},{"product_id":"59498","product_name":"Adobe Acrobat Reader 2017 17.x","vendor_name":"Adobe Systems","vuln_criticality":"-","vuln_id":"-","vuln_title":"-","vuln_cvss_score_all":"","vuln_cvss_score":"0","vuln_cvss3_score":"0","num_insecure":"0","num_eol":"0","num_patched":"1","num_installations":"1","num_hosts":"1","direct_download":"http:\/\/dl.secunia.com\/SPS\/AdobeReader2017_2017.011.30142_MUI_SPS.exe","secure_version":"2017.011.30142","soft_type":"2","vuln_threat_score":"","vpm_id":"163"}, ***Note*** *• The numerical value received as "product_id":"60068" from the JSON response is the productId parameter for View Installations API - Products, where "n" is the numerical number.*

Table 6-2 • Configured Product Groups API Information

Requirement Types	Details
Received Information	The following information will be received in the API response: ● "product_id"—Product Id ● "product_name"—Product Name ● "vendor_name"—Vendor Name ● "vuln_criticality"—Vulnerability Criticality ● "vuln_id"—SAID ● "vuln_title"—Title of SAID ● "vuln_cvss_score_all"—CVSS Base Score ● "vuln_cvss_score"—CVSS2 Base score ● "vuln_cvss3_score"—CVSS3 Base score ● "vuln_cvss4_score"—CVSS4 Base score ● "num_insecure"—Number of insecure installations ● "num_eol"—Number of end-of-life installations ● "num_patched"—Number of secure installations ● "num_installations"—Total number of installations ● "num_hosts"—Number of Host which has this product ● "direct_download"—Download Link for product ● "secure_version"—Patched Version of product ● "soft_type"—Product is OS or not 1=> OS ,2=> Not-OS ● "vuln_threat_score"—Threat Score ● "vpm_id"—ID of VPM package

View Installations API - Products

This section explains API information to view the below details of any product:

- API to view the product **Overview Scan**. See Product Overview Scan Info API.
- API to view the product **Installations Scan**. See Product Installations Scan Info API.

Product Overview Scan Info API

The information required to view each **Product Overview Scan** results is organized into the following tabs:

Table 6-3 • Product Overview API Information

Requirement Types	Details
API	`https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&_dc=1563807741382&productId="n"&smartGroupId="n"`  ***Note*** • *The value for* ***<XYZ>*** *and* ***"n"*** *in the above API is defined in the* ***Parameters*** *section.*
Methods	GET
Parameters	• **uid** = UID Value taken from successful login. See How to Obtain the Token. • **action** = results • **which** = installationOverview • **productID** = "product_id":"n" value from the JSON response of Configured Product Groups API. • **smartGroupId** = "id":"n" value from the JSON response of Product Smart Group API.  ***Note*** • *The above parameters have to be entered in the* ***<XYZ>*** *of above API respectively.*
Response	`{"success":true,"error_code":0,"data":{"countEndOfLife":"0","countInsecure":"0","countPatched":"1","productName":"Adobe AIR 27.x","createdAt":"2017-09-20 23:48:59","versionsFound":true,"missingKBsFound":false,"uniq_totalcount_mskbs":[],"uniq_totalcount_versions":[]}}`
Received Information	State of detected installations.

Product Installations Scan Info API

The information required to view each **Product Installations Scan** results is organized into the following tabs:

Table 6-4 • Product Installation Scan Info API Information

Requirement Types	Details
API	https://csi7.secunia.com/csi/api/ ?uid=<xyz>&action=<xyz>&which=<xyz>&_dc=1563809090855&start=0&limit=14&sort=host&dir=ASC&product_id="n"&smartGroupId="n"&patched=true&end_of_life=true&insecure=true&sorters=%5B%7B%22field%22%3A%22host%22%2C%22direction%22%3A%22ASC%22%7D%5D ***Note*** • *The value for* ***<XYZ>*** *and* ***"n"*** *in the above API is defined in the* ***Parameters*** *section.*
Methods	GET
Parameters	• **uid** = UID Value taken from successful login. See How to Obtain the Token. • **action** = results • **which** = get_installations • **productId** = "product_id":"n" value from the JSON response of Configured Product Groups API. • **smartGroupId** = "id":"n" value from the JSON response of Product Smart Group API. ***Note*** • *The above parameters have to be entered in the* ***<XYZ>*** *of above API respectively.*
Response	{"success":true,"error_code":0,"data":{"rows":[{"state":"1","nsi_device_id":"737","host":"BANGHV_QA_WIN8A","langroup":"SCCM","updated":"2019-07-04 08:39:58","version":"16.0.10730.20344","missing_ms_kb":"","path":"c:\\program files (x86)\\microsoft office\\root\\office16\\excel.exe","secure_status":"0","vuln_id":"86947","vuln_title":"Microsoft Multiple Products Multiple Vulnerabilities","vuln_criticality":"2","vuln_threat_score":"6"},{"state":"0","nsi_device_id":"732","host":"CSI7-WIN10-59","langroup":"SCCM","updated":"2019-07-04 08:39:14","version":"16.0.11727.20230","missing_ms_kb":"","path":"c:\\program files (x86)\\microsoft office\\root\\office16\\excel.exe","secure_status":"1","vuln_id":"-","vuln_title":"-","vuln_criticality":"-","vuln_threat_score":""},..

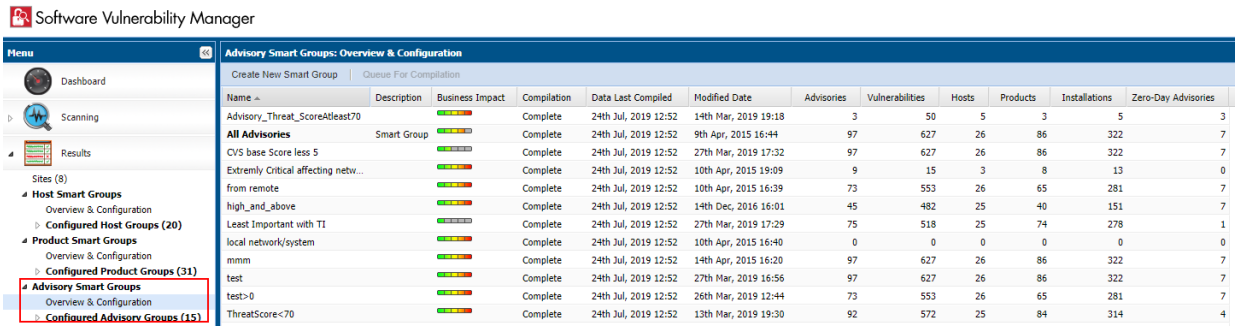
Table 6-4 • Product Installation Scan Info API Information

Requirement Types	Details
Received Information	The following information will be received in the API response: ● "state"—If product is secure, insecure = 0, eol = < 0, patched = > 0 ● "nsi_device_id"—Device Id ● "host"—Host Name ● "langroup"—Domain Name ● "updated"—Last Scan date ● "version"—Product Version ● "missing_ms_kb"—Missing MS KB ● "path"—Product Path in system ● "secure_status"—If product is secure, insecure = 0, eol = < 0, patched = > 0 ● "vuln_id"—SAID ● "vuln_title"—Title of SAID ● "vuln_criticality"—SAID criticality ● "vuln_threat_score"—Threat Score  ***Note*** *• Threat Score is available only for users with Threat Intelligence module.*

7

Advisory Smart Group API Information

This API helps to capture the data from the Product Smart Groups page in Software Vulnerability Manager.



This section describes the API information for the following:

- Advisory Smart Group API
- Configured Advisory Groups API

Advisory Smart Group API

The information required to read the **Advisory Smart Group** results is organized into the following tabs:

Table 7-1 • Advisory Smart Group API Information

Requirement Types	Details
API	`https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&_dc=1563433180691&sort=name&dir=ASC&sorters=%5B%7B%22field%22%3A%22name%22%2C%22direction%22%3A%22ASC%22%7D%5D&start=0&limit=20`  ***Note*** *• The value for* ***<XYZ>*** *in the above API is defined in the* ***Parameters*** *section.*
Methods	GET
Parameters	• **uid** = UID Value taken from successful login. See How to Obtain the Token. • **action** = smart_groups • **which** = overview • **smartGroupTextType** = advisory • **sort** =  ***Note*** *• The above parameters have to be entered in the* ***<XYZ>*** *of the above API respectively.*

Table 7-1 • (cont.)Advisory Smart Group API Information

Requirement Types	Details
Response	{"success":true,"error_code":0,"data":{"rows":[{"id":"6","name":"All Advisories","editable":"0","description":"Smart Group containing all Advisories (default Flexera Smart Group). Note: Smart Group is NOT editable.","logic_type":"all","business_impact":"2","custom_columns":"","all_custom_columns":"1","advisories":"17","vulnerabilities":"109","hosts":"1","products":"18","installations":"22","zero_day":"1","date_modified":"2019-06-03 10:16:18","in_progress":"0","generate_asap":"0","compiled_time":"2019-07-18 06:59:06"},{"id":"9","name":"CVSS3 Less than7","editable":"1","description":"CVSS3 Less than7","logic_type":"all","business_impact":"1","custom_columns":"","all_custom_columns":"1","advisories":"4","vulnerabilities":"7","hosts":"1","products":"4","installations":"5","zero_day":"0","date_modified":"2019-06-03 11:17:02","in_progress":"0","generate_asap":"0","compiled_time":"2019-07-18 06:59:06"},{"id":"7","name":"Zero-Day Advisories","editable":"0","description":"Smart Group containing all Zero-Day Advisories (default Flexera Smart Group). Note: Smart Group is NOT editable.","logic_type":"all","business_impact":"1","custom_columns":"","all_custom_columns":"1","advisories":"1","vulnerabilities":"39","hosts":"1","products":"1","installations":"1","zero_day":"1","date_modified":"2019-06-03 10:16:18","in_progress":"0","generate_asap":"0","compiled_time":"2019-07-18 06:59:06"}],"total":3}} ***Note*** *• The numerical value received as "id": "n" from the JSON response is the smartGroupId parameter for Configured Advisory Groups API, where "n" is the numerical number.*
Received Information	Name, Description, Business Impact, Compilation, Data Last Compiled, Advisories, Vulnerabilities, Products, Installations, Hosts, Zero-Day Advisories etc.

Configured Advisory Groups API

The information required to view the each **Advisory Smart Group** results is organized into the following tabs:

Table 7-2 • Configured Advisory Groups API Information

Requirement Types	Details
API	https://csi7.secunia.com/csi/api/ ?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&smartGroupId=<xyz>&_dc=1563434762909&sort=vuln_title&dir=ASC&sorters=%5B%7B%22field%22%3A%22vuln_title%22%2C%22direction%22%3A%22ASC%22%7D%5D&start=0&limit=20 ***Note*** *• The value for* ***<XYZ>*** *in the above API is defined in the* ***Parameters*** *section.*
Methods	GET
Parameters	• **uid** = UID Value taken from successful login. See How to Obtain the Token. • **action** = smart_groups • **which** = getSmartGroupContents • **smartGroupTextType** = advisory • **smartGroupId** = "id":"n" value from the JSON response of Advisory Smart Group API. • **sort** = ***Note*** *• These parameters have to be entered in the* **<XYZ>** *of the above API respectively*
Response	{"success":true,"error_code":0,"data":{"rows":[{"vuln_id":"87695","vuln_title":"Cisco Multiple Products Update Service Privilege Escalation Vulnerability","vuln_criticality":"4","vuln_threat_score":"2","vuln_zero_day":"0","vuln_create_date":"2019-02-27 00:00:00","vulnerabilities":"1","vuln_solution_status":"4","vuln_cvss_score_all":"v3:7.8","vuln_cvss_score":"0","vuln_cvss3_score":"7.8","vuln_where_type":"3","vuln_impact_type":",3,","installations":"1","products":"1","hosts":"1"},{"vuln_id":"89704","vuln_title":"cURL Insecure Permissions Privilege Escalation Vulnerability","vuln_criticality":"4","vuln_threat_score":"","vuln_zero_day":"0","vuln_create_date":"2019-06-24 00:00:00","vulnerabilities":"1","vuln_solution_status":"2","vuln_cvss_score_all":"v3:7.8","vuln_cvss_score":"0","vuln_cvss3_score":"7.8","vuln_where_type":"3","vuln_impact_type":",3,","installations":"1","products":"1","hosts":"1"},{"vuln_id":"76592","vuln_title":"Cygwin "sec_auth.cc" Privilege Escalation Vulnerability","vuln_criticality":"4","vuln_threat_score":"","vuln_zero_day":"0","vuln_create_date":"2017-04-28 00:00:00","vulnerabilities":"1","vuln_solution_status":"2","vuln_cvss_score_all":"v2:6.8","vuln_cvss_score":"6.8","vuln_cvss3_score":"0","vuln_where_type":"3","vuln_impact_type":",3,","installations":"2","products":"1","hosts":"1"},

Table 7-2 • Configured Advisory Groups API Information (cont.)

Requirement Types	Details
Received Information	The following information will be received in the API response: • "vuln_id"—SAID • "vuln_title"—Title of SAID • "vuln_criticality"—SAID criticality • "vuln_threat_score"—Threat Score • "vuln_zero_day"—If its zero day advisory its will be 1 • "vuln_create_date"—Vulnerability created date • "vulnerabilities"—Number of CVE references • "vuln_solution_status"—Solution status of the vulnerability • "vuln_cvss_score_all"—CVSS Base Score • "vuln_cvss_score"—CVSS2 Base score • "vuln_cvss3_score"—CVSS3 Base score • "vuln_cvss4_score"—CVSS4 Base score • "vuln_where_type"—types of attack vector: ◦ From remote:1 ◦ From local network:2 ◦ Local system:3 • "vuln_impact_type"—Impact of vulnerability: ◦ System access:1 ◦ DoS:2 ◦ Privilege escalation:3 ◦ Exposure of sensitive information:4 ◦ Exposure of system information:5 ◦ Brute force:6 ◦ Manipulation of data:7 ◦ Spoofing:8 ◦ Cross Site Scripting:9 ◦ Security Bypass:10 ◦ Hijacking:11 ◦ Unknown:12 • "installations"—Number of installations affected by this vulnerability • "products"—Number of products affected by this vulnerability • "hosts"—Number of hosts affected by this vulnerability  ***Note*** *• Threat Score is available only for users with Threat Intelligence module.*

8

Data API Information

This API provides help to download a core set of assessment data that can be persisted in the local database.

This section describes the API information for the following:

- Device API
- Device History API
- Software Device History API

Device API

This API provide details related to host and their last scanned date.

Table 8-1 • Device API Information

Requirement Types	Details
API	`https://csi7.secunia.com/csi/api/?action=api&which=device&result_per_page=1000&page=1`
Methods	GET
Parameters	• **from_date (date) YYYY-MM-DD** = Api will return data from the given date • **to_date (date) YYYY-MM-DD** = Api will return data till given date • **host** = Host name • **result_per_page (int)** = Number of results which API will return on one page • **page (int)** = Page which you want to display • **order_by** = Sort the result. Columns - device_id , updated , host

Table 8-1 • (cont.)Device API Information

Requirement Types	Details
Response	{"success":true,"error_code":0,"data":{"rows":[{"device_id":"1","account_id":"1","imported":"2020-11-30 11:53:01", "updated":"2020-12-09 09:11:24", "langroup":"FLEXERA","host":"BLR-LT-100952","queue_id":"11","no_insecure":"11", "no_eol":"1","no_patched":"260","no_total":"272","no_score":"96","group_id":"1","no_scans":"7","scan_type":"2", "software_inspector_id":"21","software_inspector_version":"7.6.1.15", "no_zombie":""},{"device_id":"2","account_id":"1", "imported":"2020-11-30 13:14:39","updated":"2020-12-08 06:39:26","langroup":"localdomain", "host":"localdomain", "queue_id":"10","no_insecure":"0","no_eol":"0","no_patched":"297","no_total":"297","no_score":"100","group_id":"2", "no_scans":"4","scan_type":"3","software_inspector_id":"41","software_inspector_version":"7.6.1.15","no_zombie":""}, {"device_id":"3","account_id":"1","imported":"2020-12-11 12:54:55","updated":"2020-12-11 12:54:55","langroup":"SCCM","host":"PSCCM", "queue_id":"12","no_insecure":"11","no_eol":"7","no_patched":"108","no_total":"126","no_score":"86","group_id":"3","no_scans":"1", "scan_type":"0","software_inspector_id":"31","software_inspector_version":"","no_zombie":""}],"total":20},"has_more":"false","current_page":1}
Received Information	Name, From date, To date, Page etc.

Device History API

This API provides summary security assessment data per host per date.

Table 8-2 • Device History API Information

Requirement Types	Details
API	`API https://csi7.secunia.com/csi/api/action=api&which=device_history&from_date='2020-01-01'&to_date='2020-12-15'&order_by={'date':'ASC'}`
Methods	GET
Parameters	• **from_date (date) YYYY-MM-DD** = Api will return data from the given date • **to_date (date) YYYY-MM-DD** = Api will return data till given date • **result_per_page (int)** = Number of results which API will return on one page • **page (int)** = Page which you want to display • **order_by** = Sort the result. Columns - device_id , date , score, insecure,eol,patched,total

Table 8-2 • Device History API Information (cont.)

Requirement Types	Details
Response	{"success":true,"error_code":0,"data":{"rows":[{"date":"2020-12-14","device_id":"20","score":"84","insecure":"31","eol":"6","patched":"191","total":"228"},{"date":"2020-12-14","device_id":"19","score":"87","insecure":"10","eol":"4","patched":"92","total":"106"},{"date":"2020-12-14","device_id":"18","score":"75","insecure":"6","eol":"16","patched":"65","total":"87"},{"date":"2020-12-14","device_id":"17","score":"81","insecure":"8","eol":"1","patched":"38","total":"47"},{"date":"2020-12-14","device_id":"16","score":"74","insecure":"19","eol":"3","patched":"62","total":"84"},{"date":"2020-12-14","device_id":"15","score":"75","insecure":"11","eol":"4","patched":"46","total":"61"}],"total":25},"has_more":"true","current_page":1}
Received Information	Order by, From date, To date, Pagination, etc.

Software Device History API

This API provides security assessment data per host per date. The data will contain software products discovered on each host and their secure status for that day.

Table 8-3 • Software Device History API Information

Requirement Types	Details
API	`http://csi7.secunia.com/csi/api/?action=api&which=software_history&result_per_page=1000&page=1&product_name='Google Chrome'&from_date='2020-11-10'&to_date='2020-12-15'&order_by={'date':'ASC'}`
Methods	GET
Parameters	• **product_name (string)** = Product Name to filter • **from_date (date) YYYY-MM-DD** = Api will return data from the given date • **to_date (date) YYYY-MM-DD** = Api will return data till given date • **result_per_page (int)** = Number of results which API will return on one page • **page (int)** = Page which you want to display • **order_by** = Sort the result. Columns - date

Table 8-3 • Software Device History API Information (cont.)

Requirement Types	Details
Response	{"success":true,"error_code":0,"data":{"rows":[{"date":"2020-11-10","device_id":"1082","product_id":"59470","product_name":"Google Chrome 61.x","no_installations":"1","secure_status":"-1","soft_type":"2","vuln_criticality":"2"},{"date":"2020-11-10","device_id":"17928","product_id":"60318","product_name":"Google Chrome 65.x","no_installations":"1","secure_status":"-1","soft_type":"2","vuln_criticality":"0"},{"date":"2020-11-10","device_id":"17930","product_id":"60553","product_name":"Google Chrome 66.x","no_installations":"1","secure_status":"-1","soft_type":"2","vuln_criticality":"0"}],"total":1000},"has_more":"true","current_page":"1"}
Received Information	Product Name, From date, To date, Result per page, Pagination, etc.

A

Sample API Code

The following sample API code is included in this section for your reference:

- Sample PowerShell Code to Get Host Details

Sample PowerShell Code to Get Host Details

This Appendix section attached the sample codes to receive the Software Vulnerability Host Details as shown below:

Sample PowerShell Code

```
#
#Fetch Host Details
#
$Site = ( "Account", "https://csi7.secunia.com/csi/api/","username=user_name&password=*********")
$global:QueryLimit = 10000
$global:WebServiceHeader = New-Object "System.Collections.Generic.Dictionary[[String],[String]]"
$global:WebServiceHeader.Add("Content-Type", 'application/x-www-form-urlencoded')
$global:URL = $Site[1]
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12
$global:ErrorArray = @()
function GetData ($URL, $Retry, $Post, $Body)
{
    $result = @()
    $Count = 0
    while ($Count -lt $Retry)
    {
        try
        {
            $Count++
            if ($Post)
            {
                $result = Invoke-RestMethod -Uri $URL -Method Post -Headers $global:WebServiceHeader -
Body $Body  -WebSession $global:Session
            }
            else
```

```
            {
                $result = Invoke-RestMethod $URL -Method Get -Headers $global:WebServiceHeader -
TimeoutSec 10 -WebSession $global:Session
            }
            $result.data
            $Count = $Retry
        }
        catch
        {
            Start-Sleep -s 2
            if ($Count -eq $Retry)
            {
                $global:ErrorArray += ("Error GetData " + $URL + " " +  $_.Exception.Message + " " +
$_.Exception.ItemName+ " " + $_.Exception.Status + " " + $_.Exception.Response)
                Write-Host "Timeout Exceeded and Exhausted Retries" -ForegroundColor Red
            }
            else
            {
                Write-Host "Timeout Exceeded -- will retry in 2 sec" -ForegroundColor Yellow
            }
        }
    }
    return $result
}
function QueryData ($Post, $Token, $URL, $Body)
{
    # Get First Page of results (25 items)
    [int] $Start = 0
    [int] $Limit = 11
    [int] $CurrentTotal = -1
    $Total = 0
    $results = @()
    while ($CurrentTotal -lt $Total)
    {
        $CurrentTotal = $CurrentTotal + $Limit
        $FullURLGet = $global:URL + "?uid=" + $Token + $URL + "&start=" + [string]$Start + "&limit=" +
[string]$Limit
        $FullURLPut = $global:URL + "?uid=" + $Token + $URL
        $BodyFull =  $Body + "&start=" + [string]$Start + "&limit=" + [string]$Limit
        try
        {
            if ($Post)
            {
                $result = GetData $FullURLPut 5 $Post $BodyFull
                if ($result)
                {
                    $results = $results + $result
                }
            }
            else
            {
                $result = GetData $FullURLGet 5 $Post $Body
                if ($result.rows)
                {
                  $results = $results + $result.rows
                }
```

```
                if ($result -and $result.rows)
                    {
                    $results = $results + $result
                    }
            }
            [string]$TotalString = $result.total;
            $Total = [int]$TotalString.Trim(" ");
            if ($results.Count -gt $global:QueryLimit)
            {
                break;
            }
        }
        catch
        {
            $global:ErrorArray += ("Error QueryData2 " + $result.next + " " +  $_.Exception.Message + "
" + $_.Exception.ItemName)
            return $results
        }
        $Start = $Start + $Limit
    }
    $results = $results | ? {$_}
    return $results
}
function GetUserToken ($Cred)
{
    $Data =  Invoke-WebRequest -Uri ($global:URL + "?action=manuallogin") -Body $Cred -Method Post -
Headers $global:WebServiceHeader -SessionVariable 'global:Session'
    if ($Data.StatusCode -eq 200)
    {
        $Response = ConvertFrom-Json $Data.Content
        return $Response.uid
    }
    return ""
}
$Token = GetUserToken $Site[2]
if (![string]::IsNullOrWhiteSpace($Token))
{
    $Data = QueryData $False $Token
"&action=smart_groups&which=getSmartGroupContents&smartGroupTextType=host&smartGroupId=1"
    $Count = 0
    $Data | Format-Table -Property host_name, num_insecure, num_eol, num_patched, num_installations,
nsi_device_id, score
     $Data2 = QueryData $False $Token
"&action=hosts&which=get_host_scan_results&device_id=14&dir=ASC&dir=ASC&insecure=true&patched=true"
    $Data2 | Format-Table -Property product_name, version, state, vuln_id, vuln_title
    }
```