



Software Vulnerability Manager

API User Guide

Legal Information

Book Name: Software Vulnerability Manager API Guide
Part Number: SVMC-FEBRUARY2021-UG00
Product Release Date: February 2021

Copyright Notice

Copyright © 2021 Flexera

This publication contains proprietary and confidential information and creative works owned by Flexera and its licensors, if any. Any use, copying, publication, distribution, display, modification, or transmission of such publication in whole or in part in any form or by any means without the prior express written permission of Flexera is strictly prohibited. Except where expressly provided by Flexera in writing, possession of this publication shall not be construed to confer any license or rights under any Flexera intellectual property rights, whether by estoppel, implication, or otherwise.

All copies of the technology and related information, if allowed by Flexera, must display this notice of copyright and ownership in full.

Intellectual Property

For a list of trademarks and patents that are owned by Flexera, see <https://www.flexera.com/legal/intellectual-property.html>. All other brand and product names mentioned in Flexera products, product documentation, and marketing materials are the trademarks and registered trademarks of their respective owners.

Restricted Rights Legend

The Software is commercial computer software. If the user or licensee of the Software is an agency, department, or other entity of the United States Government, the use, duplication, reproduction, release, modification, disclosure, or transfer of the Software, or any related documentation of any kind, including technical data and manuals, is restricted by a license agreement or by the terms of this Agreement in accordance with Federal Acquisition Regulation 12.212 for civilian purposes and Defense Federal Acquisition Regulation Supplement 227.7202 for military purposes. The Software was developed fully at private expense. All other use is prohibited.

Contents

- 1 Software Vulnerability Manager API Help Library 5**
 - Product Support Resources 6
 - Contact Us 7
- 2 API Introduction 9**
 - How to Obtain the Token 10
 - How to Use the API 11
- 3 Login API 13**
 - Login API Information 13
- 4 Completed Scan API Information 15**
 - List All the Host and Scan Status 15
 - List Scan Result for Each Host 17
- 5 Host Smart Group API Information 19**
 - Host Smart Groups API 19
 - Configured Host Groups API 21
- 6 Product Smart Group API Information 23**
 - Product Smart Group API 24
 - Configured Product Groups API 25
 - View Installations API - Products 26
 - Product Overview Scan Info API 27
 - Product Installations Scan Info API 28
- 7 Advisory Smart Group API Information 29**

Advisory Smart Group API..... 30

Configured Advisory Groups API 32

8 Data API Information 35

Device API 35

Device History API 36

Software Device History API..... 37

A Sample API Code 39

Sample PowerShell Code to Get Host Details 39

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.

Product Support Resources

The following resources are available to assist you with using this product:

- [Flexera Product Documentation](#)
- [Flexera Community](#)
- [Flexera Learning Center](#)
- [Flexera Support](#)

Flexera Product Documentation

You can find 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.

<https://community.flexera.com>

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>

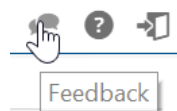
Flexera Support

For customers who have purchased a maintenance contract for their product(s), you can submit a support case or check the status of an existing case by making selections on the **Get Support** menu of the Flexera Community.

<https://community.flexera.com>

Product Feedback

You can submit feedback about Software Vulnerability Manager in the [Flexera Customer Community Forum](#). You can also submit feedback through the Software Vulnerability Manager user interface by clicking the feedback icon in the upper-right-hand corner of each module.



Contact Us

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](#)
- [YouTube](#)
- [Instagram](#)

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. You can use your browser to inspect the transactions happening between the browser and the web server.



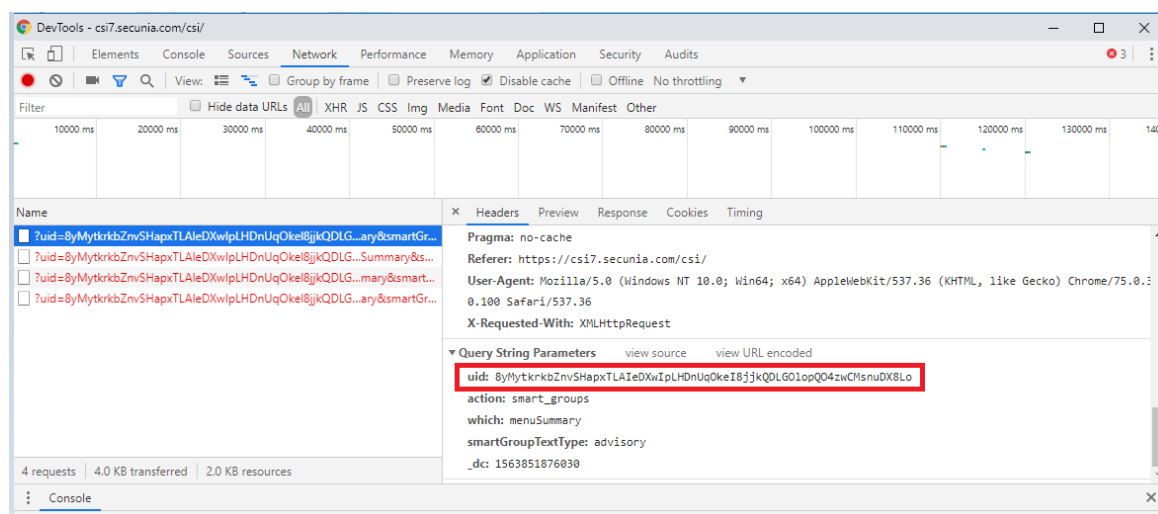
Note • To know more about the Login API information see [Login API Information](#).



Task

To obtain the token using a browser:

1. Enter the link <https://csi7.secunia.com/csi/#> in your web browser and press F12. The following screen opens:



2. Enter your credentials and click Login.
3. After successful login, you can find the Token in the **Query String Parameter** in **uid**.
4. Enter the **Token** as uid=<Enter Token> in the API URL in your subsequent transactions.

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.

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 in the subsequent transactions.

Information required to login is organized into the following tabs:

Table 3-1 • Login API Information



Requirement Type	Details
API	<code>https://csi7.secunia.com/csi/api/?uid=&action=manuallogin</code>
Method	POST
Parameters	<ul style="list-style-type: none">• username• password 
Note • Enter the SVM cloud login credentials.	

Table 3-1 • Login API Information

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

Completed Scan API Information

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

Software Vulnerability Manager										
Completed Scans										
2019-07-10		2019-07-24		Search for host name...		Search				
Time	Host	Scan Status	Results Exist	Scan Type	Zombie Files	Insecure	End-of-Life	Secure	Total	
23rd Jul, 2019 18:25	QA_WIN81E	Partial: Win...	Yes	2	included	12	3	167	182	
23rd Jul, 2019 18:18	QA_WIN81E	Success: OK	Yes	2	included	12	3	167	182	
23rd Jul, 2019 18:09	QA_WIN81E	Partial: Win...	Yes	2	included	6	3	173	182	
23rd Jul, 2019 18:02	QA_WIN81E	Success: OK	Yes	2	included	6	3	173	182	
23rd Jul, 2019 17:47	QA_WIN8	Success: OK	Yes	2	included	14	21	165	200	
23rd Jul, 2019 15:11	Navin's Mac	Success: OK	Yes	3	included	4	2	26	32	
23rd Jul, 2019 15:00	Navin's Mac	Success: OK	Yes	3	included	4	2	26	32	
23rd Jul, 2019 15:00	BLR-DT-101015	Success: OK	Yes	2	included	5	0	130	135	
23rd Jul, 2019 14:56	qacsi68	Success: OK	Yes	3	included	28	0	164	192	
23rd Jul, 2019 14:55	qacsi68	Success: OK	Yes	3	included	28	0	164	192	
23rd Jul, 2019 11:00	CS17_WIN10A	Success: OK	Yes	1	included	3	2	27	32	
23rd Jul, 2019 03:14	WIN8-205-SCOM	Success: OK	Yes	1	included	7	5	28	40	
22nd Jul, 2019 18:39	SUSHMA_WIN81A	Success: OK	Yes	1	included	7	4	33	44	

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	<p><code>https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz></code></p>  <p>Note • The value for <XYZ> in the above API is defined in the Parameters section.</p>
Parameters	<ul style="list-style-type: none"> • uid = UID Value taken from successful login see How to Obtain the Token. • action = csi_completed_scans • which = overview  <p>Note • These parameters have to be entered in the <XYZ> of above API respectively</p>
Sample Sort	<p><code>&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</code></p>
Methods	GET
Sample JSON Response	<pre>{ "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" }, ...] } }</pre>
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



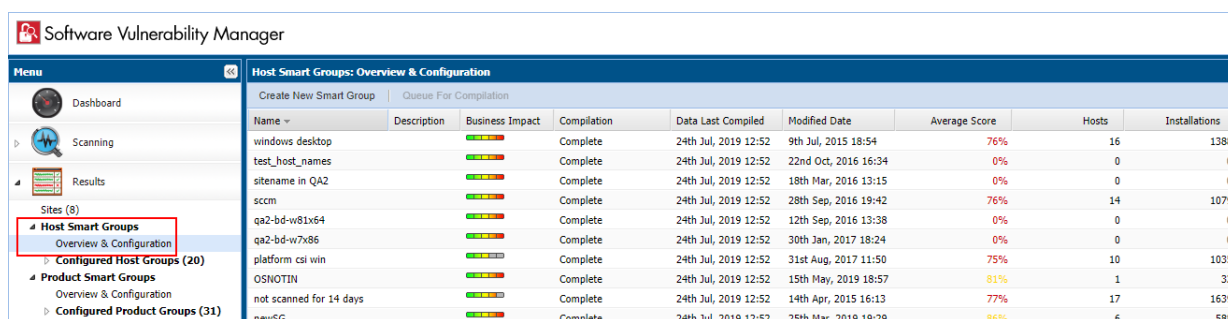
Requirement Types	Details
API URL	<p>https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz></p>  <p>Note • The value for <XYZ> in the above API is defined in the Parameters section</p>
Parameters	<ul style="list-style-type: none"> ● uid = UID Value taken from successful login see How to Obtain the Token. ● action = hosts ● which = get_host_scan_results  <p>Note • These parameters have to be entered in the <XYZ> of above API respectively.</p>
Methods	POST
Sample JSON Response	<pre>"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",...</pre>
Received Information	Application Name, Version, State, SAID, Criticality, CVSS Base Score, Threat Score, etc.

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

Requirement Types	Details
Sample Form Data	<ul style="list-style-type: none">● start: 0● limit: 27● sort: product_name● dir: ASC● eol: true● patched: true● insecure: true● device_id: 1287● sorters: product_name=ASC

Host Smart Group API Information

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



Software Vulnerability Manager									
Host Smart Groups: Overview & Configuration									
Create New Smart Group Queue For Compilation									
Name	Description	Business Impact	Compilation	Data Last Compiled	Modified Date	Average Score	Hosts	Installations	
windows desktop			Complete	24th Jul, 2019 12:52	9th Jul, 2015 18:54	76%	16	1388	
test_host_names			Complete	24th Jul, 2019 12:52	22nd Oct, 2016 16:34	0%	0	0	
siteName in QA2			Complete	24th Jul, 2019 12:52	18th Mar, 2016 13:15	0%	0	0	
sccm			Complete	24th Jul, 2019 12:52	28th Sep, 2016 19:42	76%	14	1079	
qa2-bd-w81x64			Complete	24th Jul, 2019 12:52	12th Sep, 2016 13:38	0%	0	0	
qa2-bd-w7x86			Complete	24th Jul, 2019 12:52	30th Jan, 2017 18:24	0%	0	0	
platform csi win			Complete	24th Jul, 2019 12:52	31st Aug, 2017 11:50	75%	10	1035	
OSNOTIN			Complete	24th Jul, 2019 12:52	15th May, 2019 18:57	81%	1	32	
not scanned for 14 days			Complete	24th Jul, 2019 12:52	14th Apr, 2015 16:13	77%	17	1639	
newSG			Complete	24th Jul, 2019 12:52	25th Mar, 2019 19:29	86%	6	588	

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	<p><a href="https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&_dc=1563347478676">https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&_dc=1563347478676</p> <p></p> <p>Note • The value for <XYZ> in the above API is defined in the Parameters section.</p>



Table 5-1 • Host Smart Group API Information

Requirement Types	Details
Methods	GET
Parameters	<ul style="list-style-type: none"> • uid = UID Value taken from successful login. See How to Obtain the Token. • action = smart_groups • which = menuSummary • smartGroupTextType = host  <p>Note • These parameters have to be entered in the <XYZ> of above API respectively.</p>
Response	<pre>{ "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 }</pre>  <p>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.</p>
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	<p><code>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</code></p>  <p>Note • The value for <XYZ> in the above API is defined in the Parameters section.</p>
Methods	GET
Parameters	<ul style="list-style-type: none"> ● 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.  <p>Note • The above parameters have to be entered in the <XYZ> of above API respectively</p>
Response	<pre>{ "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" } }</pre>
Received Information	Host Name, System Score, Last Scan, Insecure, End-of-Life, Secure, Total, Site Name, Scan Engine, Software Platform etc.

Product Smart Group API Information

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

 Software Vulnerability Manager

Product Smart Groups: Overview & Configuration									
Create New Smart Group Queue For Compilation									
Name	Description	Business Impact	Compilation	Data Last Compiled	Unique Products	Installations	Hosts	Modified Date	
7-Day Critical Vulnerability C...	This will show all insecure p		Complete	24th Jul, 2019 12:...	82	296	24	14th Dec, 2016 15:58	
AAG			Complete	24th Jul, 2019 12:...	0	0	0	2nd Nov, 2016 14:03	
All Products	Smart Group containing all I		Complete	24th Jul, 2019 12:...	500	2624	26	9th Apr, 2015 16:44	
assdas			Complete	24th Jul, 2019 12:...	0	0	0	16th Apr, 2015 18:24	
bmd			Complete	24th Jul, 2019 12:...	0	0	0	24th Sep, 2016 21:29	
CVSS2score atleast7			Complete	24th Jul, 2019 12:...	24	48	15	4th Jul, 2019 15:18	
CVSS2score less than7			Complete	24th Jul, 2019 12:...	11	21	5	4th Jul, 2019 15:07	
End-Of-Life Products	Smart Group containing all I		Complete	24th Jul, 2019 12:...	42	96	19	9th Apr, 2015 16:44	
Insecure installations of Java...			Complete	24th Jul, 2019 12:...	0	0	0	10th Apr, 2015 19:06	
insecure os			Complete	24th Jul, 2019 12:...	6	16	14	14th Apr, 2015 16:14	

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	<p><code>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</code></p>  <p>Note • The value for <XYZ> in the above API is defined in the Parameters section.</p>
Methods	GET
Parameters	<ul style="list-style-type: none"> ● 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.  <p>Note • The above parameters have to be entered in the <XYZ> of the above API respectively.</p>
Response	<pre>{ "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" }] } }</pre>  <p>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.</p>

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	<p>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=</p>  <p>Note • The value for <XYZ> in the above API is defined in the Parameters section.</p>
Methods	GET
Parameters	<ul style="list-style-type: none"> • 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.  <p>Note • These parameters have to be entered in the <XYZ> of the above API respectively</p>

Table 6-2 • Configured Product Groups API Information

Requirement Types	Details
Response	<pre>{ "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" }] } }</pre>  <p>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.</p>
Received Information	Product Name, Patch Version, SAID, Advisory Description, Criticality, Threat Score, CVSS Base Score, CVSS2 Base Score, CVSS3 Base Score, Vendor, Insecure, End-Of-Life, Secure, Total, Affected Hosts, Download Link, Product Type etc.

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	<p><code>https://csi7.secunia.com/csi/api/?uid=<xyz>&action=<xyz>&which=<xyz>&_dc=1563807741382&productId="n"&smartGroupId="n"</code></p>  <p>Note • The value for <XYZ> and "n" in the above API is defined in the Parameters section.</p>
Methods	GET
Parameters	<ul style="list-style-type: none"> ● 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.  <p>Note • The above parameters have to be entered in the <XYZ> of above API respectively.</p>
Response	<pre>{ "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": [] } }</pre>
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	<p>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</p>  <p>Note • The value for <XYZ> and "n" in the above API is defined in the Parameters section.</p>
Methods	GET
Parameters	<ul style="list-style-type: none"> • 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.  <p>Note • The above parameters have to be entered in the <XYZ> of above API respectively.</p>
Response	<pre>{ "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": "" }] } }</pre>
Received Information	<p>Host details, SAID, Criticality, Threat Score, State, Version, Last Scan, Path, etc.</p>  <p>Note • Threat Score is available only for users with Threat Intelligence module.</p>

Advisory Smart Group API Information

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

Software Vulnerability Manager

Advisory Smart Groups: Overview & Configuration											
Create New Smart Group		Queue For Compilation									
Name	Description	Business Impact	Compilation	Data Last Compiled	Modified Date	Advisories	Vulnerabilities	Hosts	Products	Installations	Zero-Day Advisories
Advisory_Threat_ScoreAtleast70			Complete	24th Jul, 2019 12:52	14th Mar, 2019 19:18	3	50	5	3	5	3
All Advisories	Smart Group		Complete	24th Jul, 2019 12:52	9th Apr, 2015 16:44	97	627	26	86	322	7
CVS base Score less 5			Complete	24th Jul, 2019 12:52	27th Mar, 2019 17:32	97	627	26	86	322	7
Extremely Critical affecting netw...			Complete	24th Jul, 2019 12:52	10th Apr, 2015 19:09	9	15	3	8	13	0
from remote			Complete	24th Jul, 2019 12:52	10th Apr, 2015 16:39	73	553	26	65	281	7
high_and_above			Complete	24th Jul, 2019 12:52	14th Dec, 2016 16:01	45	482	25	40	151	7
Least Important with TI			Complete	24th Jul, 2019 12:52	27th Mar, 2019 17:29	75	518	25	74	278	1
local network/system			Complete	24th Jul, 2019 12:52	10th Apr, 2015 16:40	0	0	0	0	0	0
mnm			Complete	24th Jul, 2019 12:52	14th Apr, 2015 16:20	97	627	26	86	322	7
test			Complete	24th Jul, 2019 12:52	27th Mar, 2019 16:56	97	627	26	86	322	7
test>0			Complete	24th Jul, 2019 12:52	26th Mar, 2019 12:44	73	553	26	65	281	7
ThreatScore<70			Complete	24th Jul, 2019 12:52	13th Mar, 2019 19:30	92	572	25	84	314	4

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	<div>https://csi7.secunia.com/csi/api/ ?uid=<xyz>&action=<xyz>&which=<xyz>&smartGroupTextType=<xyz>&_dc=1563 433180691&sort=name&dir=ASC&sorters=%5B%7B%22field%22%3A%22name%22%2C %22direction%22%3A%22ASC%22%7D%5D&start=0&limit=20</div> <div></div> <div>Note • The value for <XYZ> in the above API is defined in the Parameters section.</div>
Methods	GET
Parameters	<div><ul style="list-style-type: none">● uid = UID Value taken from successful login. See How to Obtain the Token.● action = smart_groups● which = overview● smartGroupTextType = advisory● sort =</div> <div></div> <div>Note • The above parameters have to be entered in the <XYZ> of the above API respectively.</div>

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

Requirement Types	Details
Response	<pre>{ "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 } }</pre>  <p>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.</p>
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	<p><code>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</code></p>  <p>Note • The value for <XYZ> in the above API is defined in the Parameters section.</p>
Methods	GET
Parameters	<ul style="list-style-type: none"> ● 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 =  <p>Note • These parameters have to be entered in the <XYZ> of the above API respectively</p>
Response	<pre>{ "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 &quot;sec_auth.cc&quot; 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" }] } }</pre>

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

Requirement Types	Details
Received Information	<div>SAID, Advisory Description, Criticality, Threat Score, Zero-Day, Advisory Published, Vulnerabilities, Solution Status, Installations, Products, etc.</div> <div></div> <div>Note • Threat Score is available only for users with Threat Intelligence module.</div>

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	<ul style="list-style-type: none">• 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	<pre>{ "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 } }</pre>
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	<ul style="list-style-type: none"> ● 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	<pre>{ "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 } }</pre>
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	<ul style="list-style-type: none"> ● 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	<pre>{ "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" }</pre>
Received Information	Product Name, From date, To date, Result per page, Pagination, etc.



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 5 -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 + $result.rows
        }
    }
    [string]$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 $Site[2]
if (![string]::IsNullOrEmpty($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

    $Body = "device_id=1182" + "&dir=ASC" + "&eol=true" + "&insecure=true" + "&patched=true"
    $Data2 = QueryData $True $Token "&action=hosts&which=get_host_scan_results" $Body
    $Data2.data | Format-Table -Property product_name, version, state, vuln_id, vuln_title
}

```

Appendix A [Sample API Code](#)

Sample PowerShell Code to Get Host Details