
IPSubnetInfo (v2) Documentation



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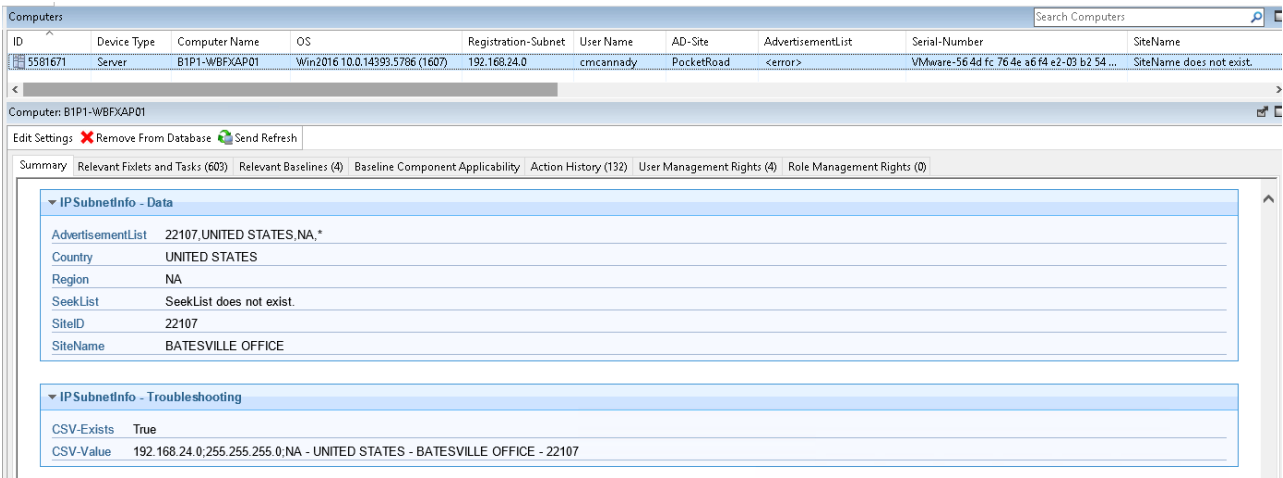
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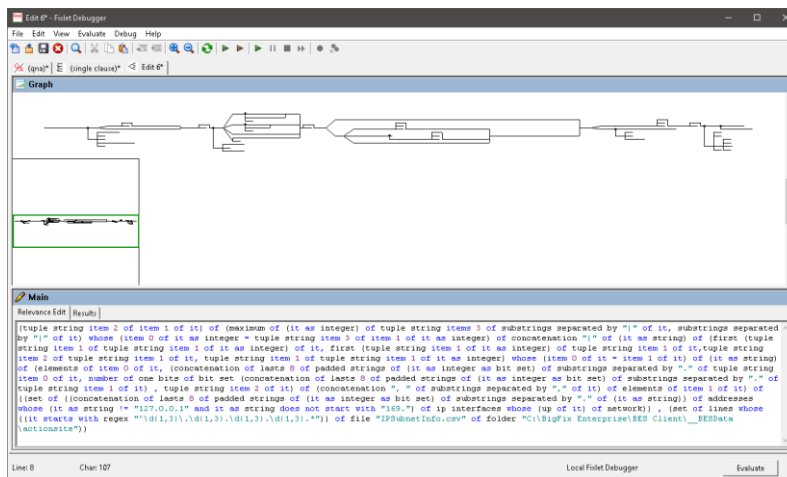


Computer summary screenshot showing the IPSubnetInfo data.

What is the IPSubnetInfo project?

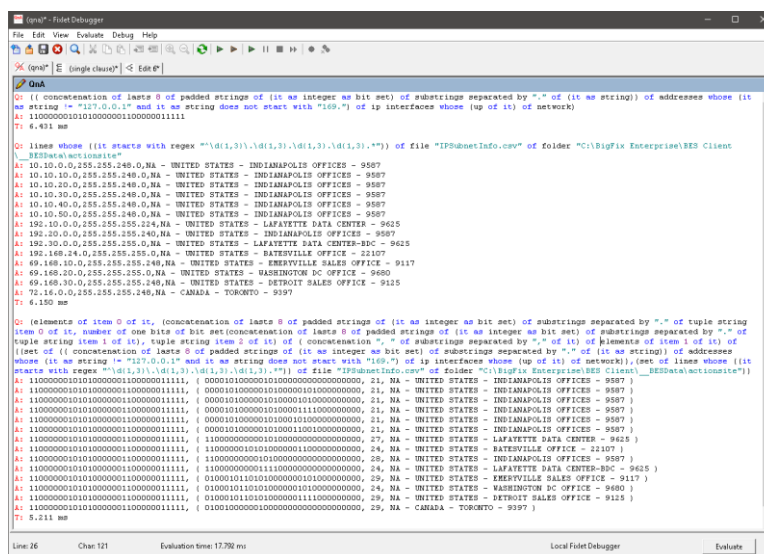
The **IPSubnetInfo** project was originally developed to aid medium and large size organizations with further automating the managed endpoint [relay affiliation](#) process by leveraging a specifically formatted [CSV file](#) containing enterprise network data.

The 2nd iteration of the **IPSubnetInfo** project introduces more advanced [CIDR string](#) relevance in conjunction with new [Registered Address](#) setting content to more efficiently analyze the [CSV file](#) on the managed endpoints.



QnA graph showing CIDR relevance breakdown & cost.

The **IPSubnetInfo** project is fully [open source](#) and freely available to any BigFix customer at <https://github.com/cmcannady/IPSubnetInfo/> to implement as-in or with organizational dependent Action Script and Relevance modifications.



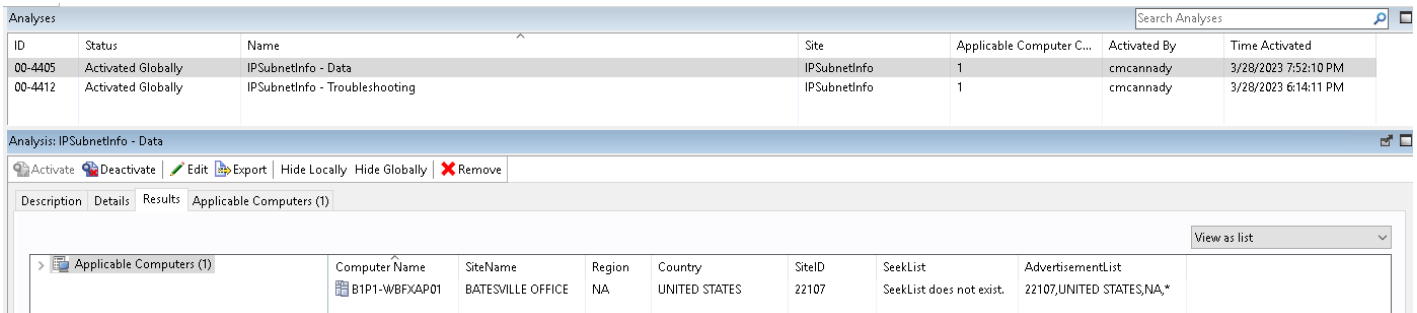
QnA relevance CIDR statements & results.

Please note that **ALL** content from [my personal GitHub](#) is provided As-Is and without warranty.

IPSubnetInfo BigFix Content

The **IPSubnetInfo** project is comprised of a specifically formatted CSV file of customer network data and several fixlets that have been made publicly available for use by any BigFix customer. In the [IPSubnetInfo project repository](#) there are four BigFix fixlets and two analysis in conjunction with the corresponding CSV sample file that have been tested on current versions of Linux, Mac and Windows operating systems.

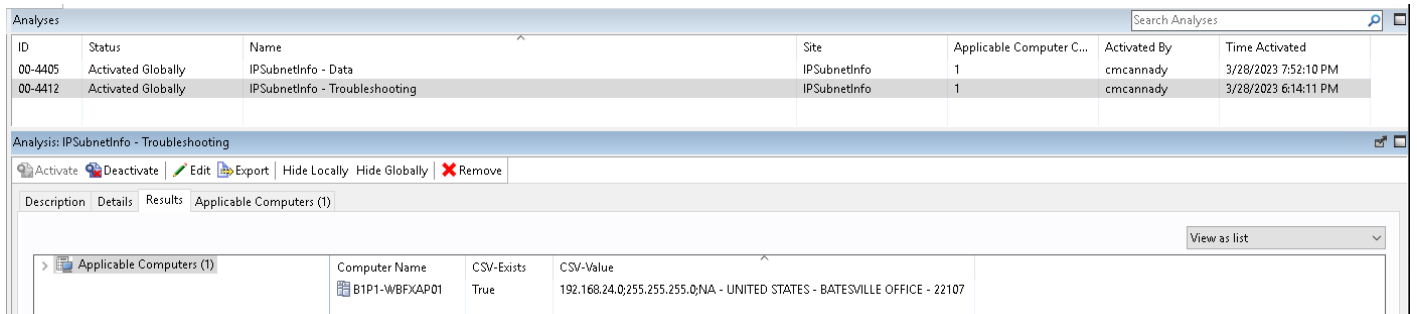
The two following screenshots provide an overview of the analysis content provided as part of the **IPSubnetInfo** project. These analysis can be useful in troubleshooting and/or reporting the applicable network details for managed endpoints.



ID	Status	Name	Site	Applicable Computer C...	Activated By	Time Activated
00-4405	Activated Globally	IPSubnetInfo - Data	IPSubnetInfo	1	cmccannady	3/28/2023 7:52:10 PM
00-4412	Activated Globally	IPSubnetInfo - Troubleshooting	IPSubnetInfo	1	cmccannady	3/28/2023 6:14:11 PM

Computer Name	SiteName	Region	Country	SiteID	SeekList	AdvertisementList
B1P1-WBFXAP01	BATESVILLE OFFICE	NA	UNITED STATES	22107	SeekList does not exist.	22107,UNITED STATES,NA,*

Analysis | IPSubnetInfo - Data | Displays the applicable IPSubnetInfo data for managed endpoints.



ID	Status	Name	Site	Applicable Computer C...	Activated By	Time Activated
00-4405	Activated Globally	IPSubnetInfo - Data	IPSubnetInfo	1	cmccannady	3/28/2023 7:52:10 PM
00-4412	Activated Globally	IPSubnetInfo - Troubleshooting	IPSubnetInfo	1	cmccannady	3/28/2023 6:14:11 PM

Computer Name	CSV-Exists	CSV-Value
B1P1-WBFXAP01	True	192.168.24.0;255.255.255.0;NA - UNITED STATES - BATESVILLE OFFICE - 22107

Analysis | IPSubnetInfo - Troubleshooting | Shows if the CSV file is present and if a result exists for the endpoint.

Please note that the following task content **WILL NOT** work if the CSV file and Registered Address of the client have been set in advance. Please refer to the [CSV file](#) or [Registered Address](#) sections of this documentation for additional information.

These next two screenshots show the BES Infra and BESClient tasks that are required to be issued as reapplying policy action in order for the **IPSubnetInfo** solution to function as desired.

Fixlets and Tasks

Search Fixlets and Tasks

ID	Name	Site	Source Severity	Applicable Co...	Open Action C.
4411	IPSubnetInfo Global Set Registered Address Setting	IPSubnetInfo	High	0 / 1	1
4410	IPSubnetInfo Global BESClient Default Settings	IPSubnetInfo	Low	0 / 1	2
4408	IPSubnetInfo Global BES Infra Default Settings (ALT)	IPSubnetInfo	Low	0 / 1	0
4409	IPSubnetInfo Global BES Infra Default Settings	IPSubnetInfo	Low	0 / 1	2

<

>

Task: IPSubnetInfo | Global | BES Infra | Default Settings

Take Action

Edit

Copy

Export

Hide Locally

Hide Globally

Remove

Description

Details

Applicable Computers (0)

Action History (2)

>

Action History (2)

ID	Time Issued	State	% Complete	Name	Site	Issued By	Type
00-4417	3/29/2023 6:38:31 PM	Open		POLICY IPSubnetInfo Global BES Infra Default Settings	IPSubnetInfo	cmccannady	Sing
00-4416	3/29/2023 6:23:16 PM	Open	100.00% (1/1)	RUN ONCE IPSubnetInfo Global BES Infra Default Settings	IPSubnetInfo	cmccannady	Sing

Task | IPSubnetInfo | Global | BES Infra | Default Settings

Fixlets and Tasks

</

Task | IPSubnetInfo | Global | BESClient | Default Settings

Please note that the “ALT” version of the BES Infra task is provided and implements [tuple strings](#) to apply larger sets of upstream top-level or intermediate-level BESRelays.

Registration Address of Client

The **IPSubnetInfo** project is highly dependent on obtaining the registration address for the BigFix agent (*aka BESClient*) to function as expected. Accordingly, the [IPSubnetInfo | Global | Set Registered Address Setting](#) task is required to be issued as a policy action with reapplication logic to ensure that the registration address setting is available for related IPSubnetInfo policy actions are evaluated.

Task: IPSubnetInfo | Global | BES Infra | Default Settings: (ALT)

Search Task: IPSubnetInfo | Global | BES Infra

ID	Name	Site	Source Severity	Applicable Co...	Open Action C.
4411	IPSubnetInfo Global Set Registered Address Setting	IPSubnetInfo	High	0 / 1	1
4410	IPSubnetInfo Global BESClient Default Settings	IPSubnetInfo	Low	0 / 1	0
4408	IPSubnetInfo Global BES Infra Default Settings: (ALT)	IPSubnetInfo	Low	0 / 1	0
4409	IPSubnetInfo Global BES Infra Default Settings	IPSubnetInfo	Low	0 / 1	2

<

>

Task: IPSubnetInfo | Global | Set Registered Address Setting

Take Action

Edit

Copy

Export

Hide Locally

Hide Globally

Remove

Description

Details

Applicable Computers (0)

Action History (1)

Action History (1)

ID	Time Issued	State	% Complete	Name	Site	Issued By	Type
00-4415	3/29/2023 6:00:15 PM	Open		POLICY IPSubnetInfo Global Set Registered Address Setting	IPSubnetInfo	cmccannady	Sing

Task | IPSubnetInfo | Global | Set Registration Address Setting

It's recommended to add the `_BESClient_Registered_Address` setting as a data column in the BES console interface. For information on adding columns to the computers view in the BES console, please review https://support.hcltechsw.com/csm?id=kb_article&sysparm_article=KB0094781

IPSubnetInfo CSV File

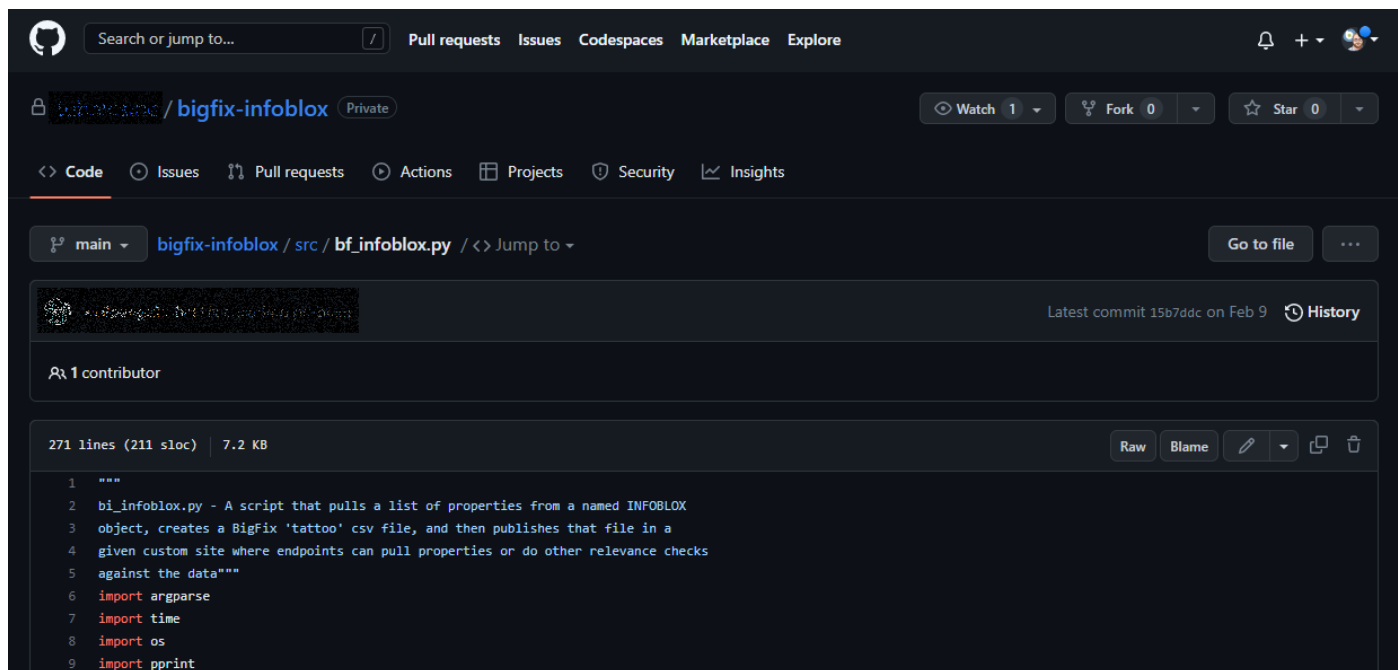
The **IPSubnetInfo** project depends on a specifically formatted CSV file. An example of this CSV file is shown in the screenshot below.

```
IPSubnetInfo.csv X
C:\Users\cmccannady> cd C:\Program Files\BigFix\Tools\Scripts\IPSubnetInfo > IPSubnetInfo > IPSubnetInfo.csv
1 subnet,subnetmask,sitename
2 10.10.0.0,255.255.248.0,NA - UNITED STATES - INDIANAPOLIS OFFICES - 9587
3 10.10.10.0,255.255.248.0,NA - UNITED STATES - INDIANAPOLIS OFFICES - 9587
4 10.10.20.0,255.255.248.0,NA - UNITED STATES - INDIANAPOLIS OFFICES - 9587
5 10.10.30.0,255.255.248.0,NA - UNITED STATES - INDIANAPOLIS OFFICES - 9587
6 10.10.40.0,255.255.248.0,NA - UNITED STATES - INDIANAPOLIS OFFICES - 9587
7 10.10.50.0,255.255.248.0,NA - UNITED STATES - INDIANAPOLIS OFFICES - 9587
8 192.10.0.0,255.255.255.224,NA - UNITED STATES - LAFAYETTE DATA CENTER - 9625
9 192.20.0.0,255.255.255.240,NA - UNITED STATES - INDIANAPOLIS OFFICES - 9587
10 192.30.0.0,255.255.255.0,NA - UNITED STATES - LAFAYETTE DATA CENTER-BDC - 9625
11 192.168.24.0,255.255.255.0,NA - UNITED STATES - ARCTIC FOX OFFICE - 22107
12 69.168.10.0,255.255.255.248,NA - UNITED STATES - EMERYVILLE SALES OFFICE - 9117
13 69.168.20.0,255.255.255.0,NA - UNITED STATES - WASHINGTON DC OFFICE - 9680
14 69.168.30.0,255.255.255.248,NA - UNITED STATES - DETROIT SALES OFFICE - 9125
15 72.16.0.0,255.255.255.248,NA - CANADA - TORONTO - 9397
```

The generation of this CSV file can be a manual process or automated via REST API integrations.

REST API Integrations for IPSubnetInfo CSV Automation

The CSV file for the **IPSubnetInfo** project can be compiled manually or by modifying an export from a network tool like Infoblox. If additional automation is desired, the [BigFix Professional Services](#) team can be engaged to implement custom REST API integration with your organization's network tool to generate the CSV file on a schedule and automatically update the CSV file within the BigFix instance.



The screenshot shows a GitHub repository interface for 'bigfix-infoblox'. The repository is private and has 1 watch, 0 forks, and 0 stars. The file 'bf_infoblox.py' is selected, showing its contents. The file is 7.2 KB and contains 271 lines of code. The code is a Python script that pulls a list of properties from a named INFOBLOX object, creates a BigFix 'tattoo' csv file, and then publishes that file in a given custom site where endpoints can pull properties or do other relevance checks against the data. The script uses argparse for command-line arguments and includes imports for time, os, and pprint.

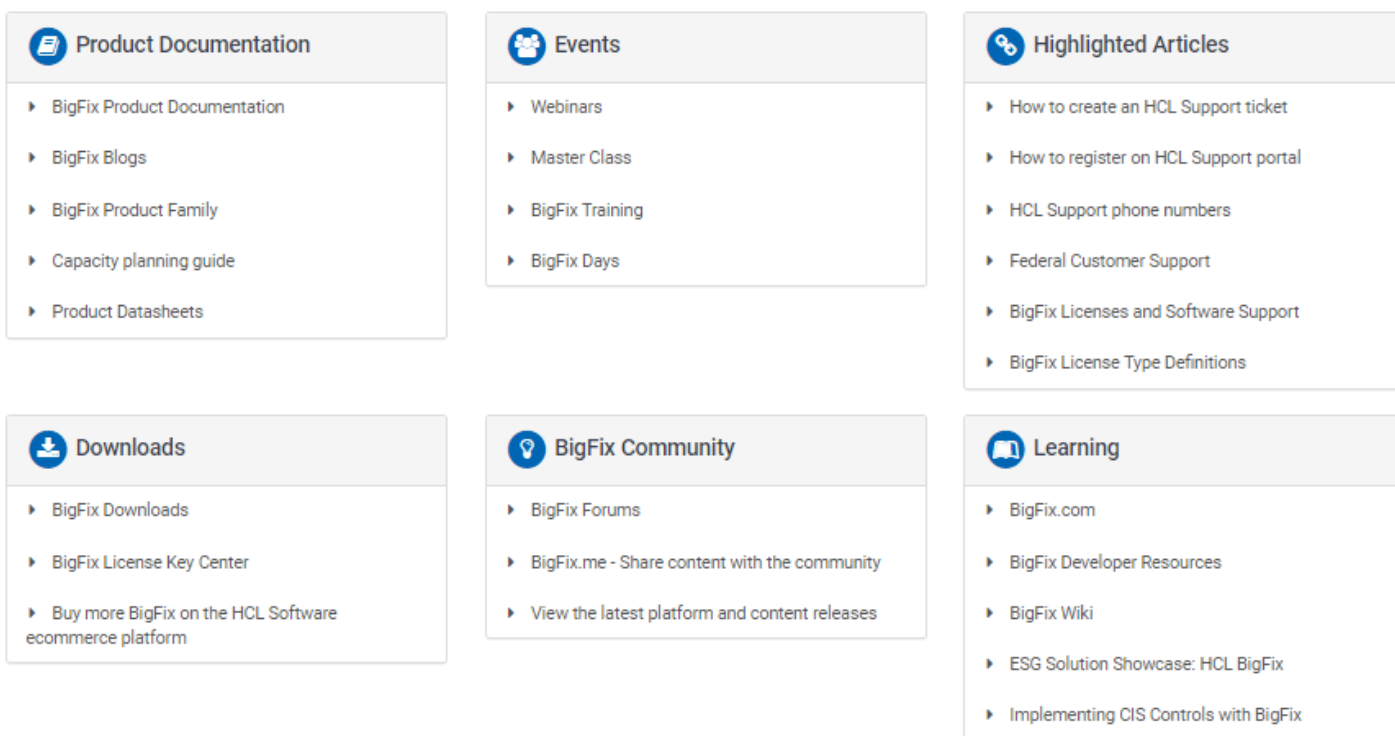
```
1 """
2 bi_infoblox.py - A script that pulls a list of properties from a named INFOBLOX
3 object, creates a BigFix 'tattoo' csv file, and then publishes that file in a
4 given custom site where endpoints can pull properties or do other relevance checks
5 against the data"""
6 import argparse
7 import time
8 import os
9 import pprint
```

Screenshot of GitHub project with Infoblox REST integration.

HCL Support Scope

IMPORTANT :: The **IPSubnetInfo** project is custom content and OUTSIDE the purview of HCL BigFix support. Please **do not** open a support case with HCL BigFix support for issues with the **IPSubnetInfo** content. For custom assistance with the IPSubnetInfo project, please contact the [BigFix Professional Services](#) team.

To obtain support on BigFix modules and products, please visit support.bigfix.com and ensure that you've registered your corporation/organization email address and HCL customer number to access the ticketing portal.



The BigFix support portal includes a myriad of links to useful community, event, learning and product resources. Please click on the above screenshot to be directed to the BigFix support portal.

System onboarding process

Installation of the BigFix agent should be part of the systems onboarding and/or reimaging process. If any in-scope endpoints in the corporate/organization ecosystem is found to be missing the BESClient, a ticket should be opened to the applicable team for immediate remediation. This will likely require coordination with the device owner as some corporate/organization support resources do not have elevated credentials on all managed assets.

BigFix URLs to access the different portals *(with descriptions of their purpose)*

Documentation

[BigFix Product Documentation](#)
[BigFix Blogs](#)
[BigFix Product Family](#)
[Capacity planning guide](#)
[Product Datasheets](#)

Articles

[How to Create an HCL Support Ticket](#)
[How to Register on HCL Support portal](#)
[HCL Support phone numbers](#)
[Federal Customer Support](#)
[BigFix License and Software Support](#)
[BigFix License Type Definitions](#)

Community

[BigFix Forums](#)
[BigFix.me](#) - Share content with the community
[View the latest platform and content releases](#)

Events

[Webinars](#)
[Master Class](#)
[BigFix Training](#)
[BigFix Days](#)

Downloads

[BigFix Downloads](#)
[BigFix License Key Center](#)
[Buy more BigFix on the HCL Software ecommerce platform](#)

Learning

[BigFix.com](#)
[BigFix Developer Resources](#)
[BigFix Wiki](#)
[ESG Solution Showcase HCL BigFix](#)
[Implementing CIS Controls with BigFix](#)

Customization Engagement & Support

If your corporation/organization needs assistance customizing or supporting an **IPSubnetInfo** implementation or desire implementing an available OR custom REST integration, please visit the [BigFix Professional Service](#) site or email BigFix-PS-Sales@hcl.com for additional details.