



## **Avaya Solution & Interoperability Test Lab**

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# **Application Notes for configuring Fijowave Fijoport Advanced Monitoring with Avaya IP Office IP500 V2 R11– Issue 1.0**

### **Abstract**

These Application Notes describe the configuration steps for provisioning Fijowave's Fijoport Advanced Monitoring to access Avaya IP Office IP500 V2 standalone R11.0.

Readers should pay particular attention to the scope of testing as outlined in **Section 2.1**, as well as observations noted in **Section 2.2** to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

# 1. Introduction

These Application Notes describe the configuration steps for provisioning Fijowave's Fijoport Advanced Monitoring with Avaya IP Office IP500 V2 standalone.

**Note:** The current version of Fijoport Advanced Monitoring only supports a connection to the IP Office IP500 V2 for the monitoring of alarms and messages through the System Monitoring API. A connection to IP Office Server Edition is not currently supported.

Fijoport Advanced Monitoring (Fijoport) consists of both a monitoring service and allows for remote access with Avaya IP Office. The Fijowave solution consists of the Fijowave Portal VPN, the Fijowave Portal Server and the Fijoport Box. The Fijowave Portal Server is responsible for establishing and maintaining secure tunnel connections to Fijoport boxes on the remote customer networks. A customer support engineer can remotely access the Fijowave Portal Server using Fijowave Portal VPN software installed on a desktop using OpenVPN.

## 2. General Test Approach and Test Results

The interoperability compliance testing evaluates the ability of Fijoport to be used as both a monitoring service for alarm messages and as a remote access device for IP Office. There are two modules that were tested.

1. Fijoport Advanced Monitoring
2. Fijoport Remote Access

The Fijoport Advanced Monitoring product would always include the Fijoport Remote Access module however Fijoport Remote Access product would also exist as a stand-alone product without the Fijoport Advanced Monitoring module.

Fijoport Advanced Monitoring uses the Avaya IP Office System Monitoring API. This is a REST Web Service which in response to a HTTPS GET request returns data in an XML format. This monitoring service alerts the end user to various alarms coming from the IP Office. This user can then use the remote access module to gain access to the IP Office in question and observe and fix these alarms that are being raised.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and Fijoport included the use of SSH, TLS and AES used by Fijowave to setup a secure tunnel to IP Office.

## 2.1. Interoperability Compliance Testing

The compliance testing includes the test scenarios shown below.

- Monitoring Alarm Messages from IP Office IP500 V2
- Using Avaya IP Office Manager from a remote location
- Using the IP Office Monitor tool
- Using the IP Office System Status tool

## 2.2. Test Results

All test cases passed successfully with the following observations noted during testing.

1. The current version of Fijoport Advanced Monitoring only supports a connection to the IP Office IP500 V2 for the monitoring of alarms and messages through the System Monitoring API. A connection to IP Office Server Edition Linux server is not currently supported.
2. IP Office Manager “Broadcast Discovery” cannot be used with the VPN. The IP address must be used to discover the IP Office and this IP address is the mapped IP address provided by the Fijoport device.
3. Not every single Alarm code was tested on the Monitoring section, a flavour of current alarms and two new alarms were raised and observed.

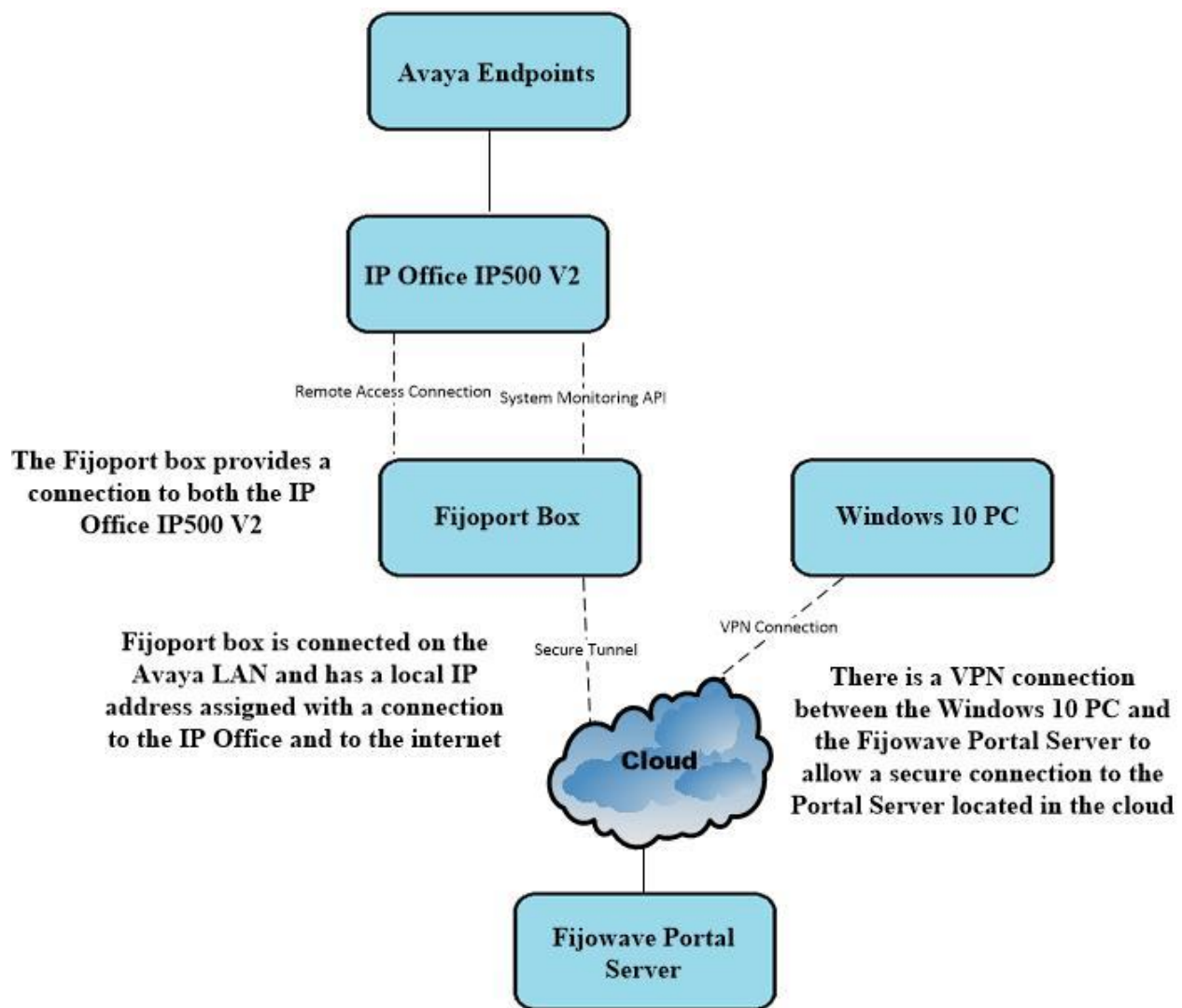
## 2.3. Support

Support from Avaya is available by visiting the website <http://support.avaya.com> and a list of product documentation can be found in **Section 9** of these Application Notes. Technical support for the Fijowave Fijoport Remote Access product can be obtained as follows:

- Web: <http://www.fijowave.com>
- Email: [support@fijowave.com](mailto:support@fijowave.com)
- Help desk: +353 1 525 3072

### 3. Reference Configuration

**Figure 1** shows the network topology during compliance testing. Fijoport Advanced Monitoring provides a remote service platform solution that allows the user to remotely maintain products on their customer's premises in a secure manner over an IP link. The Fijoport box is located on the customer network along with a portal server appliance hosted by Fijowave. A user can establish a connection to the IP Office interface via the Fijowave Portal VPN and instruct the Portal server to establish a remote access session to specified customer network equipment via the Fijoport box.



**Figure 1: Reference Configuration of Fijowave Fijoport Remote Access with Avaya IP Office**

## 4. Equipment and Software Validated

The following equipment and software were used for the compliance test.

Equipment/Software	Version/Release
Avaya IP Office IP500 V2	R11.0.4.2.0 Build 58
Avaya 1140e Deskphone	SIP R04.04.23.00
Avaya 96x1 Deskphone	H.323 Release 6.6.115
Avaya 1608-I Deskphone	H.323 1608UA1_350B.bin
Avaya 9508 Digital Deskphone	V60
Fijowave Fijoport Box	V1.1
Fijowave Portal VPN	V2.2
Fijowave Portal Server	V3.5

**Note:** Compliance Testing is applicable when the tested solution is deployed with a standalone IP Office 500 V2 only.

**Note:** The current version of Fijoport Advanced Monitoring only supports a connection to the IP Office IP500 V2 for the monitoring of alarms and messages through the System Monitoring API.

## 5. Configure Avaya IP Office

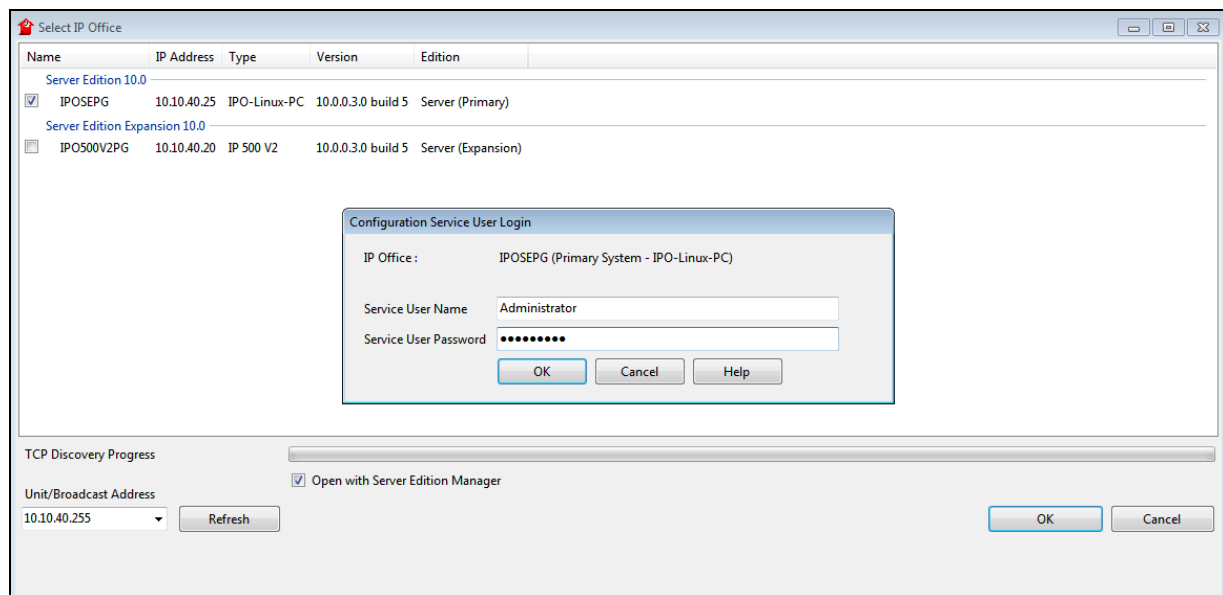
There is no specific configuration of IP Office required for the compliance testing of Fijoport Advanced Monitoring. The IP address of the IP Office is required in order to configure the Fijoport box in **Section 6**. Configuration and verification operations on the Avaya IP Office illustrated in this section were all performed using Avaya IP Office Manager. It is implied a working system is already in place. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**. The configuration operations described in this section can be summarized as follows:

- Launch Avaya IP Office Manager
- Display LAN Configuration
- Create System Monitoring Web Service User

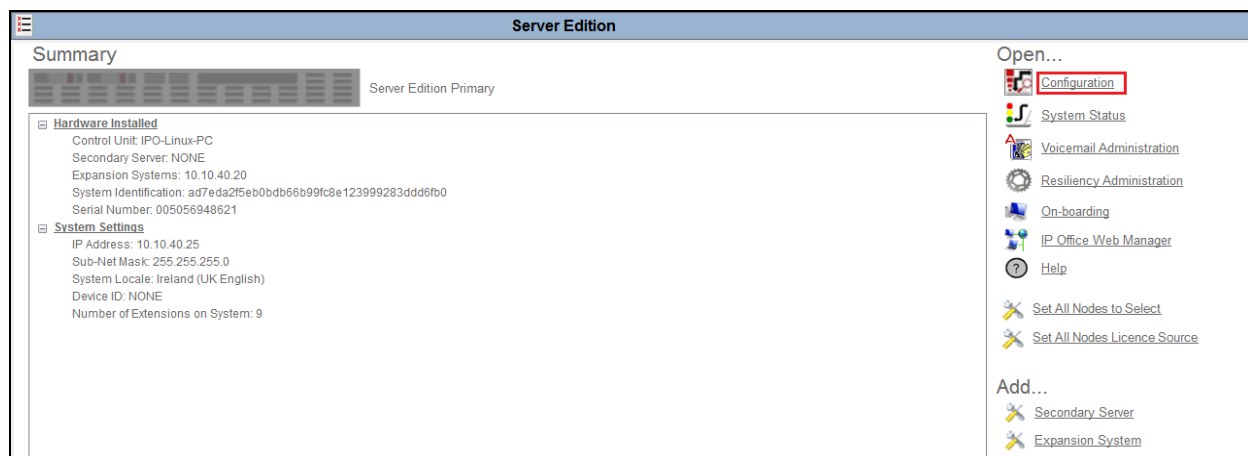
**Note:** The example below shows the IP address information for the Server Edition only, however both the Server Edition and the IP500V2 IP information must be acquired to setup a connection to both.

### 5.1. Launch Avaya IP Office Manager

From the IP Office Manager PC, click **Start → Programs → IP Office → Manager** to launch the Manager application (not shown). Select the required Server Edition as shown below and enter the appropriate credentials. Click on the **OK** button.

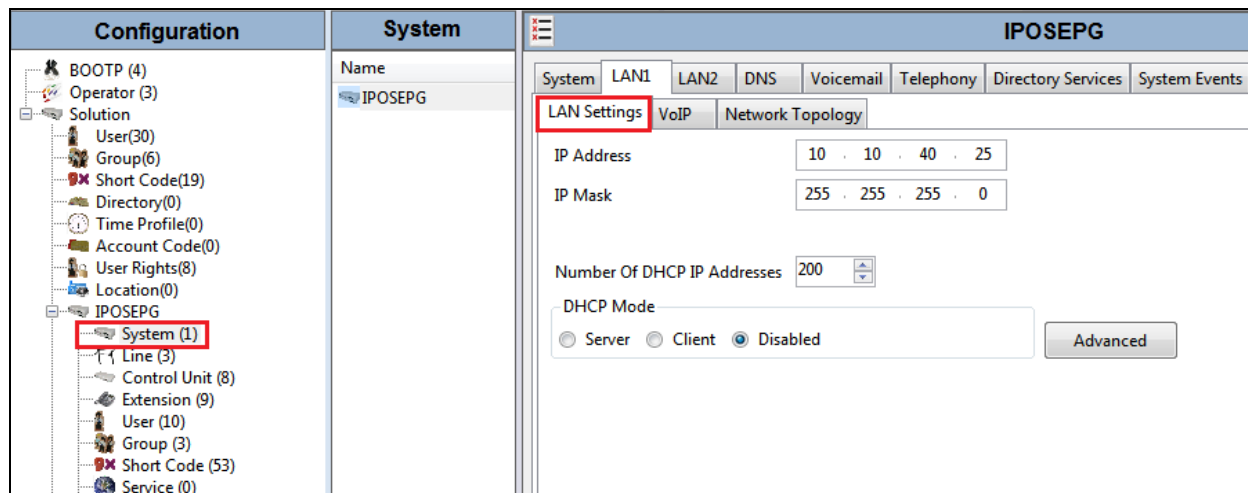


Click on **Configuration** at the top right of the page, as shown, to receive the IP Office configuration.



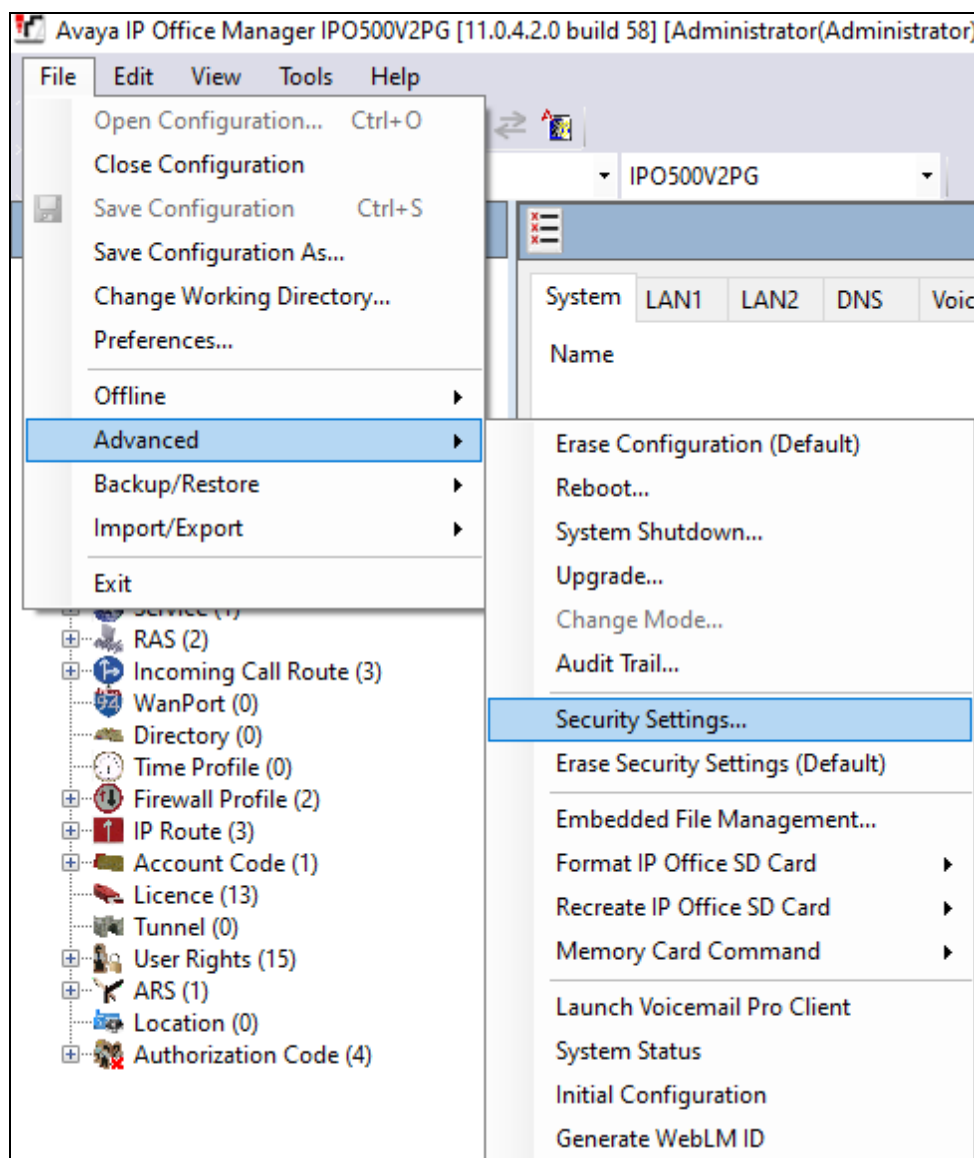
## 5.2. Display LAN Properties

From the left window navigate to **System** as shown and in the main window click on the **LAN1** tab and within that tab select the **LAN Settings** tab. The **IP Address** of the IP Office is shown, and this will be required for setup in **Section 6.2**.



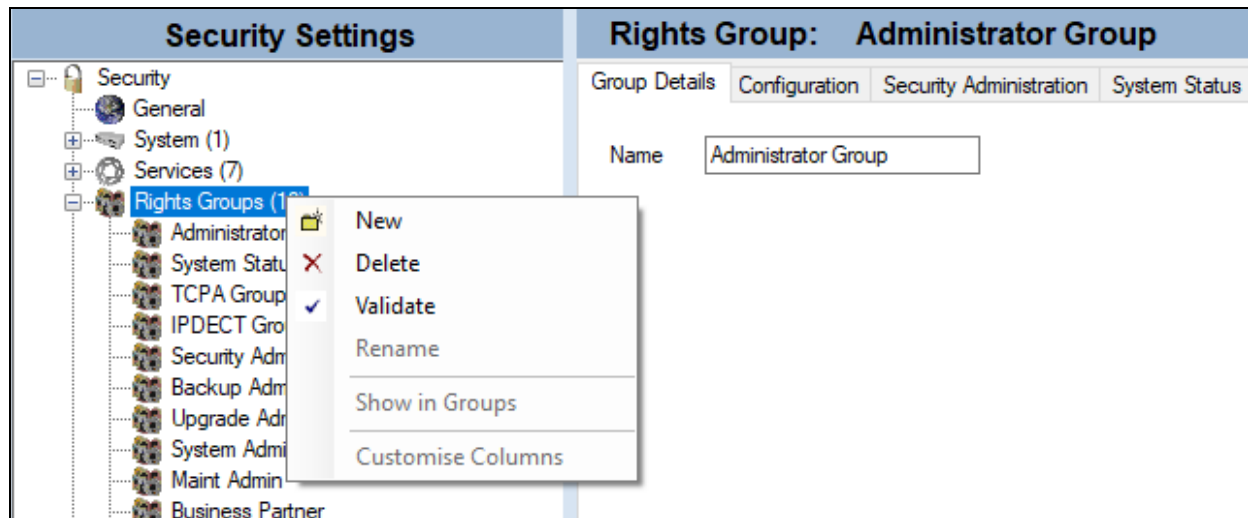
### 5.3. Create System Monitoring Web Service User

Once the configuration is opened to the IP Office IP500 V2, navigate to **File** → **Advanced** → **Security Settings**, as shown below.

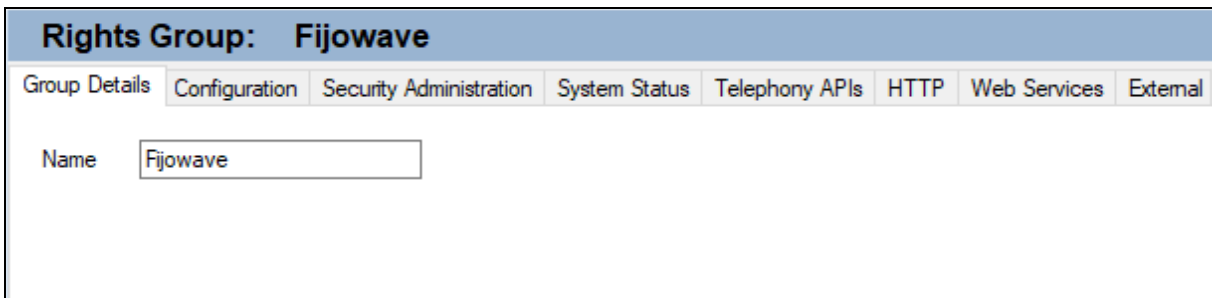




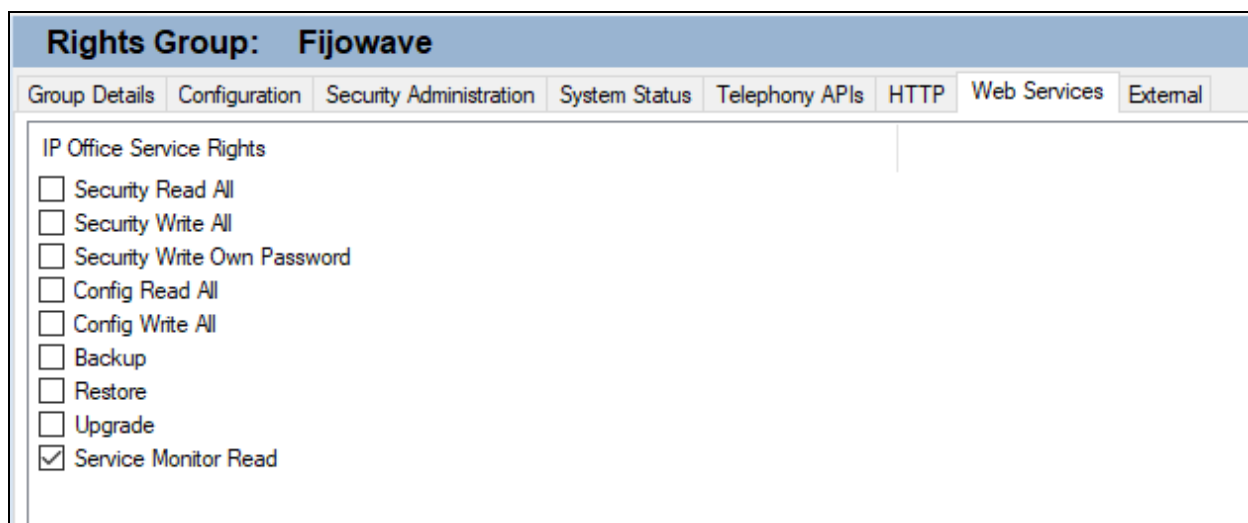
Expand the **Rights Groups** in the left window, right-click on **Rights Groups** and select **New**, as shown below.



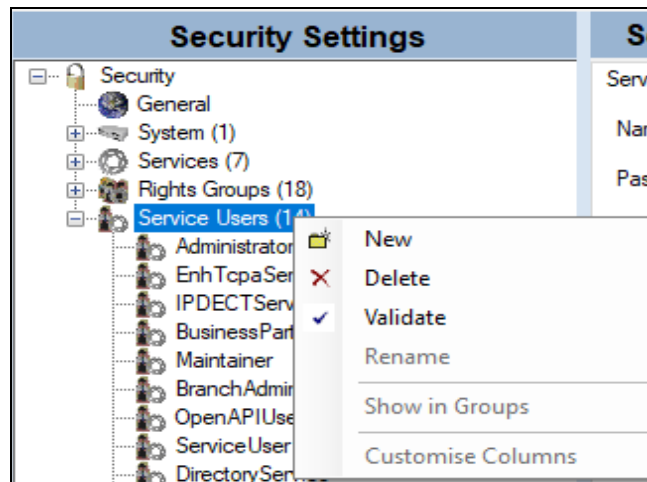
Enter a suitable **Name** under the **Group Details** tab.



Click on the **Web Services** tab and tick the box beside **Service Monitor Read**, as shown below.



Expand the **Service Users** in the left window, right-click on **Service Users** and select **New**, as shown.



Enter a suitable **Name** and **Password** for this new user, note that these details will be required in the configuration of the Fijowave Monitoring in **Section 6.3**. Ensure that the **Rights Group** created above is ticked as shown below. Click on **OK** at the bottom of the screen (not shown).

**Service User: fijowavev2**

Service User Details

Name: fijowavev2

Password: [masked] Change Clear Cache

Account Status: Enabled

<None>

No Account Expiry ☒

Account Expiry

February 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
1	2	3	4	5	6	7

Today: 17/02/2020

Rights Group Membership

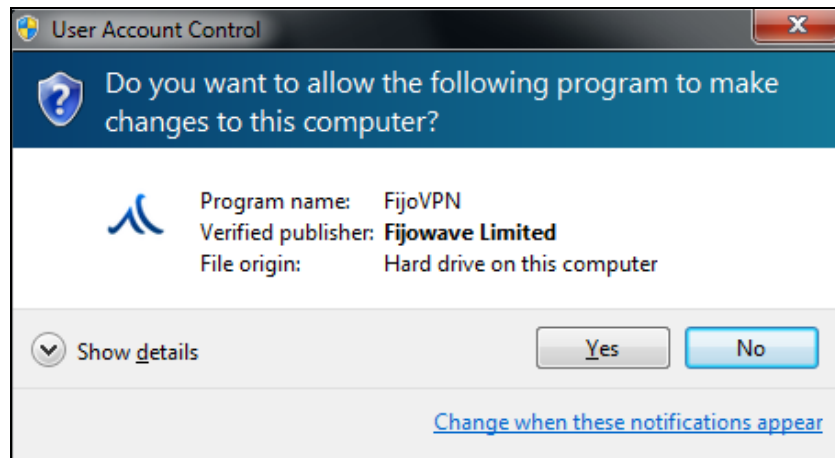
- ☐ Business Partner
- ☐ Customer Admin
- ☐ Maintainer
- ☐ SMGR Admin
- ☐ Directory Group
- ☐ MCM Admin
- ☐ Open API Group
- ☐ OpenAPIGp
- ☒ Fijowave

## 6. Configure Fijowave Fijoport Remote Access

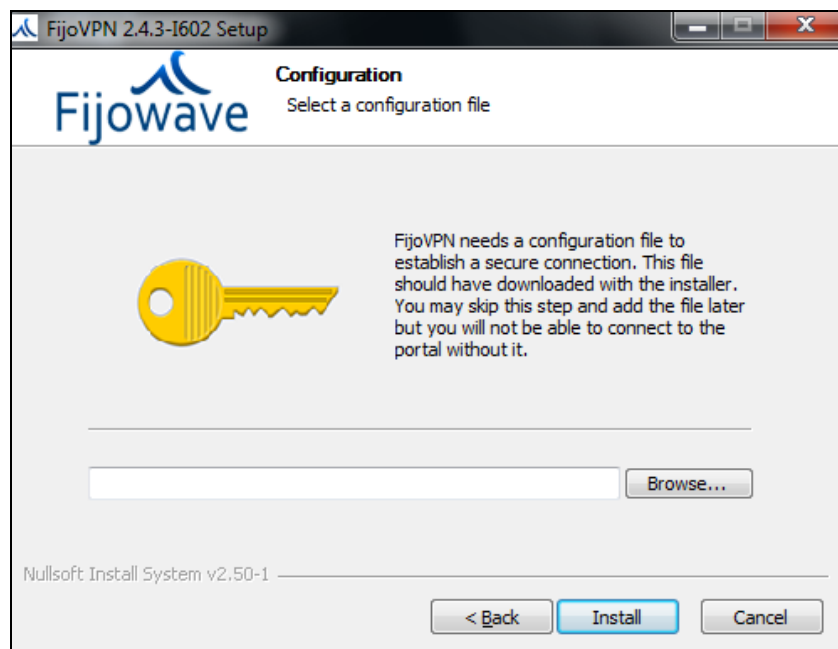
The configuration of the Fijoport Remote Access includes the installation and configuration of the Fijoport Portal VPN. Fijowave provides a username and password for the Fijoport Portal VPN in order to ensure connectivity to the Fijoport Portal Server. This username and password is required during the installation of the Fijoport Portal VPN.

### 6.1. Install Fijowave Portal VPN

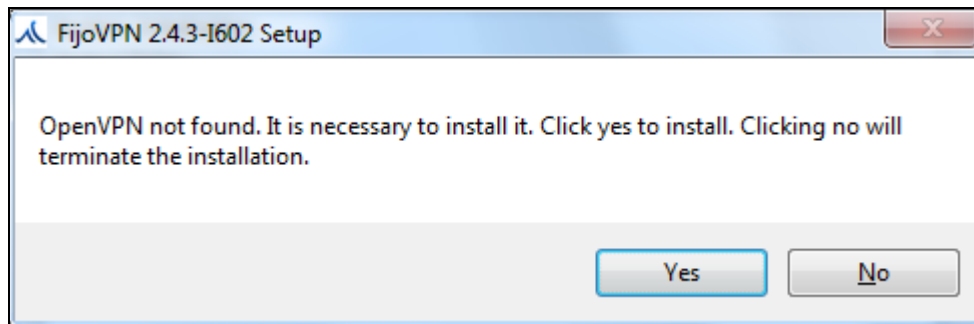
Unpack the contents of the RAR file, FijowavePortalServer2.2.rar, browse to the Fijowave Portal VPN directory and run the installer FijoVPN-2.x.x-xxxx.exe (not shown). Click **Yes** if User Account Control asks permission to proceed.



Browse and select the appropriate VPN configuration key file (not shown) and then click **Install**.



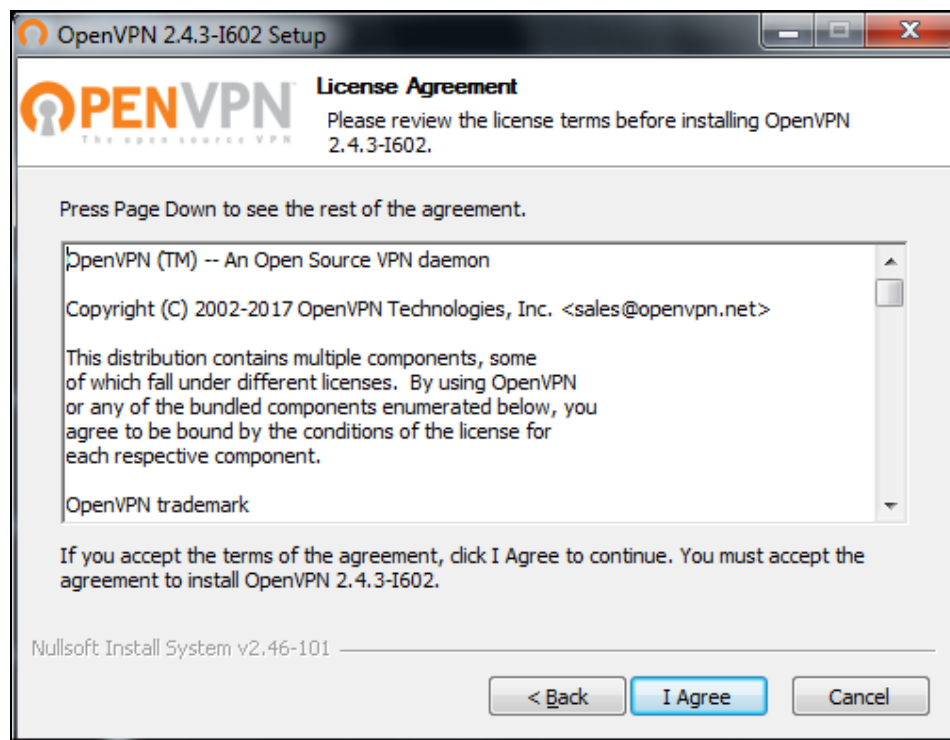
If OpenVPN is not already installed, then install it by clicking **Yes** and following the OpenVPN installation instructions.



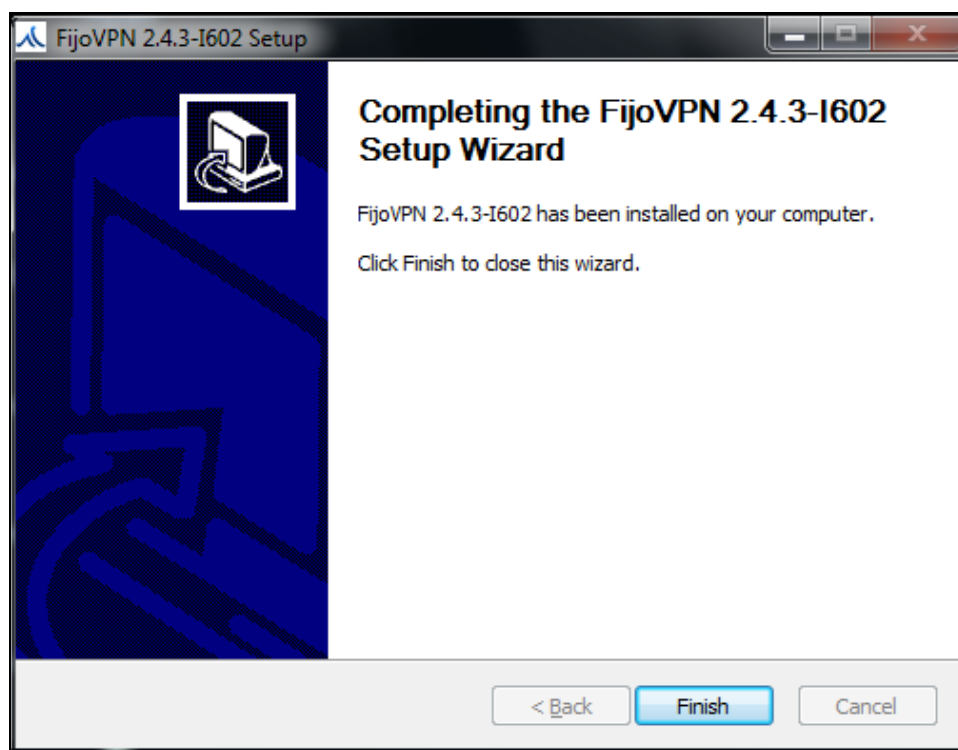
Click on **Next** to continue.



Click on **I Agree** to continue.



Close the installer by clicking **Finish**.



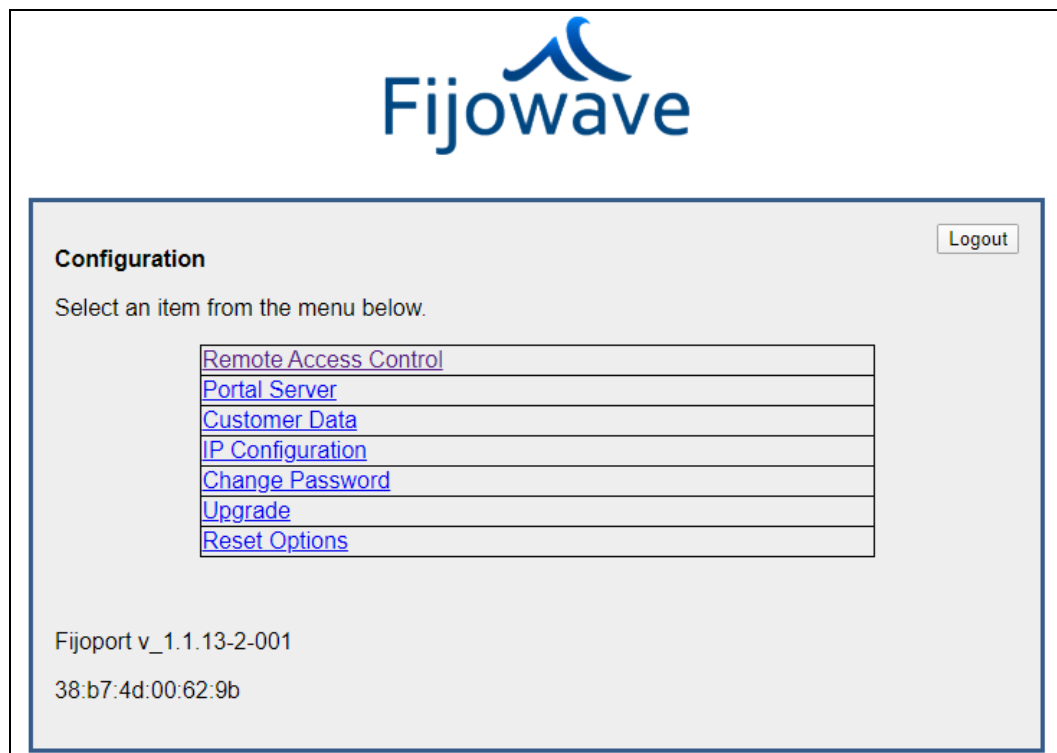
## 6.2. Configure Connection to IP Office

Open a URL to the Fijoport Box. Enter the appropriate credentials and click on **submit**.




The image shows the Fijowave login interface. At the top is the Fijowave logo. Below it is a light gray rectangular box containing the login form. The form has the title "Login" centered at the top. Below the title are two input fields: "Username:" followed by a text box, and "Password:" followed by a text box. Below these fields is a "submit" button. Below the gray box, the text "Powered by Fijowave" and the URL "www.fijowave.com" are displayed.

Click on the **Remote Access Control** link.



The image shows the Fijowave configuration interface. At the top is the Fijowave logo. Below it is a light gray rectangular box containing the configuration menu. The menu has the title "Configuration" at the top left and a "Logout" button at the top right. Below the title is the instruction "Select an item from the menu below." Below this instruction is a table with seven rows, each containing a link. The links are: "Remote Access Control", "Portal Server", "Customer Data", "IP Configuration", "Change Password", "Upgrade", and "Reset Options". Below the table, the text "Fijoport v\_1.1.13-2-001" and the MAC address "38:b7:4d:00:62:9b" are displayed.

Enter the local IP address of the IP Office Server Edition for **ID 1** and the local IP address of the IP Office IP500 V2 for **ID 2** (if applicable). Press the **Save** button and then close the browser tab.



**Remote Access Control**

Logout

Enter the names and IP addresses of the devices that may be accessed via the portal.

ID	Description	IP address	Device Type
1	Server Edition	10.10.40.25	Avaya IPO SE ▼
2	IP500V2	10.10.40.20	Avaya IPO 500 V2 ▼
3			▼
4			▼
5			▼
6			▼
7			▼
8			▼

Save

Cancel

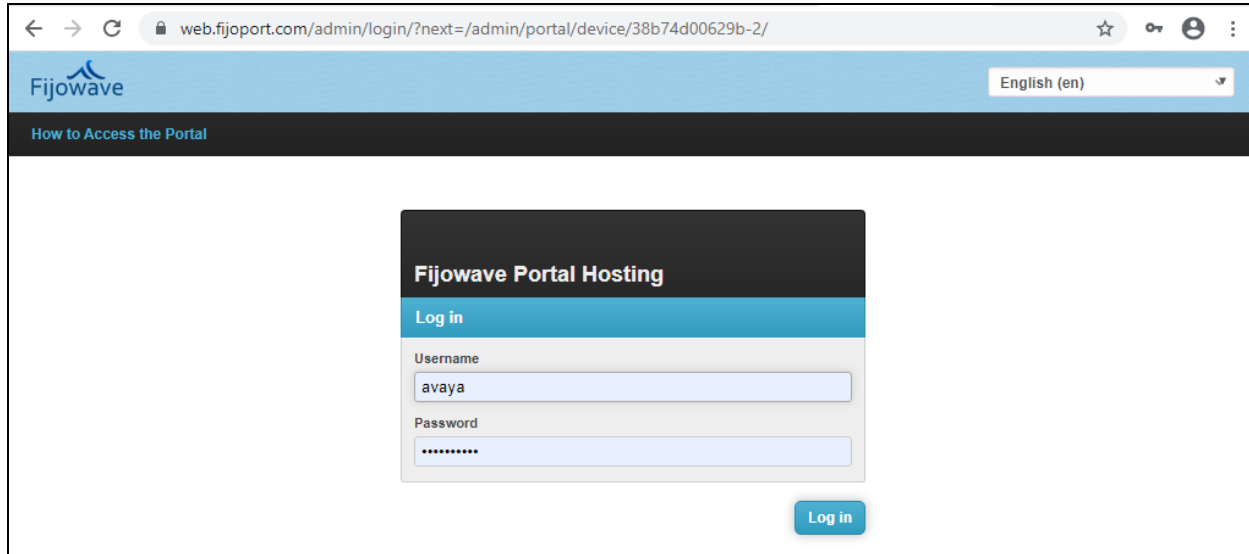
[Return to menu](#)

Powered by Fijowave

[www.fijowave.com](http://www.fijowave.com)

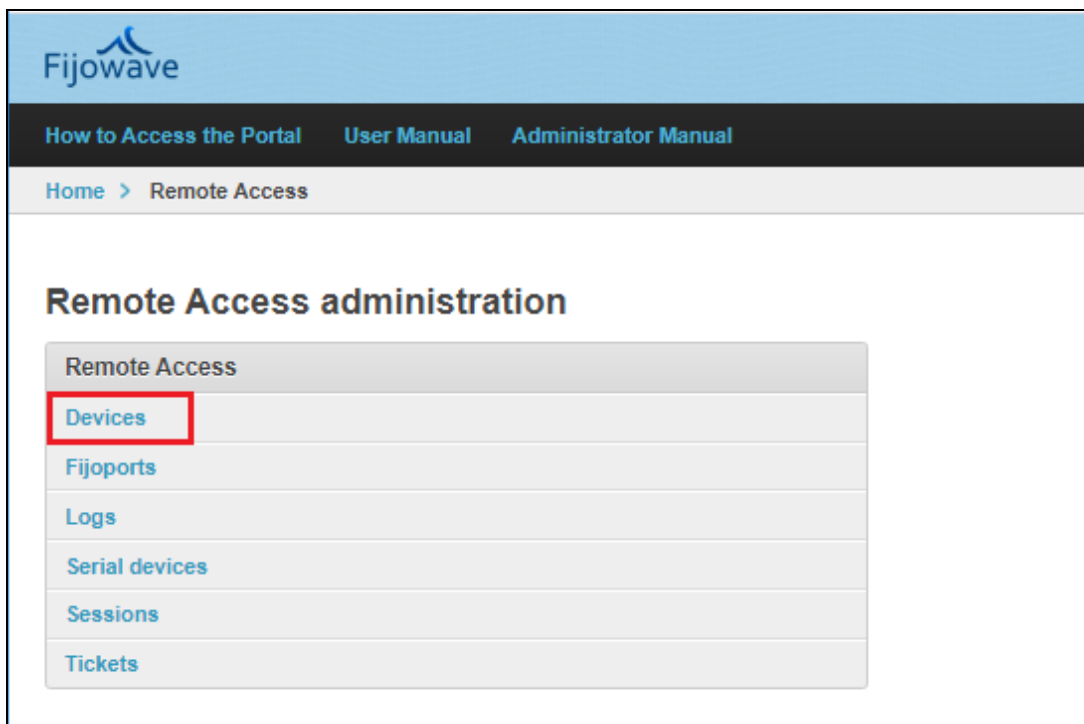
### 6.3. Configure Monitoring on Fijowave Portal Server

Open a URL to **web.fijoport.com** as shown below, enter the appropriate credentials and click on **Log in**.



The screenshot shows a web browser window with the URL `web.fijoport.com/admin/login/?next=/admin/portal/device/38b74d00629b-2/`. The page features the Fijowave logo and a language dropdown set to "English (en)". Below a "How to Access the Portal" link, there is a "Fijowave Portal Hosting" login box. This box contains a "Log in" header, a "Username" field with the text "avaya", a "Password" field with masked characters, and a "Log in" button.

Click on **Devices**.



The screenshot displays the "Remote Access administration" page. It includes a navigation bar with links for "How to Access the Portal", "User Manual", and "Administrator Manual". Below this is a breadcrumb trail: "Home > Remote Access". The main heading is "Remote Access administration". A list of options is shown in a table-like structure, with "Devices" highlighted by a red rectangle. Other options include "Fijoport", "Logs", "Serial devices", "Sessions", and "Tickets".



On sites where many Fijoports are in use, click on the **Device ID** to be accessed.

Home > Remote Access > Devices

**Devices** Tickets Tickets summary

16 total  Filter

Device ID	Customer ID	Customer name	Device name	Local IP	Device model	Version	Monitored	NH	Backup	AM&S	Online	License
38b74d0015cf-1	Avaya0015cf	Avaya Devconnect	IPOv2	10.10.40.20	-		✖	✖	?	?	?	Hardware
38b74d0015cf-2	Avaya0015cf	Avaya Devconnect	IPOse	10.10.40.25	-		✖	✖	?	?	?	Hardware
38b74d0015cf-3	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-4	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-5	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-6	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-7	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-8	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d00629b-1	Avaya00629b	Avaya Devconnect	Server Edition	10.10.40.25	Avaya IPO SE		✔	✖	?	?	✔	Hardware
38b74d00629b-2	Avaya00629b	Avaya Devconnect	IP500V2	10.10.40.20	Avaya IPO 500 V2		✔	✖	✖	✔	✔	Hardware
38b74d00629b-3	Avaya00629b	Avaya Devconnect		-	-		✖	✖	?	?	?	Hardware

When the appropriate **Device** is opened, click on **Change** at the top.

Home > Remote Access > Devices > 38b74d00629b-2

**Device 38b74d00629b-2** Browse Detect AM&S Network health Change History

Device name	IP500V2
Local IP	10.10.40.20
Monitored	✔
Network Health enabled	✖

**Customer site**

Fijoport	38b74d00629b
Customer ID	Avaya00629b
Customer name	Avaya Devconnect

**Device information**

Device model	Avaya IPO 500 V2
--------------	------------------

**Device tickets**

Open	Confirmed	Resolved
3	0	7

**Hazard notes** +

No active hazard notes

**Status**

Online	✔
Connected	✔
Mapped IP	10.190.40.2

Scroll down and enter the appropriate Credentials, this will be the **Username** and **Password** of the Web Services user created in **Section 5.3**.

Home > Remote Access > Devices > 38b74d00629b-2 > Change

Customer name: Avaya Devconnect

**Device information**

Device model: Avaya IPO 500 V2

Version:

Last detected: -

**Credentials**

Username: fijowavev2

Password: \*\*\*\*\* [SHOW](#)

Backup

Scroll down to the section called **Advanced Monitoring and Security**. Ensure **Enabled** is ticked. For compliance testing all **Available alert settings** were chosen as shown below. Click on **Save** at the bottom of the screen.

Home > Remote Access > Devices > 38b74d00629b-2 > Change

Last run:

Last status: ?

Last backup:

**Advanced Monitoring and Security**

Enabled: ☒

**Alert settings**

**Available alert settings**

Filter:

[Choose all](#)

Hold down "Control", or "Command" on a Mac, to select more than one.

**Chosen alert settings**

- Configuration | CodecAlarm
- Configuration | DuplicateEntries
- Configuration | HardwareAlarm
- Configuration | InsufficientRAMAlarm
- Configuration | LostAlarm
- Configuration | ProcessorAlarm
- Configuration | TrunkChannelAlarm
- Licensing | LicenseErrorAlarm
- Licensing | NoLicenseAlarm
- Licensing | PLDSFileAlarm
- Licensing | ValidLicenseAlarm
- Licensing | WebLicensingAlarm
- Network health | DeviceChange
- Network health | IPDECTAlarm
- Network health | SCEPLinkAlarm

[Remove all](#)

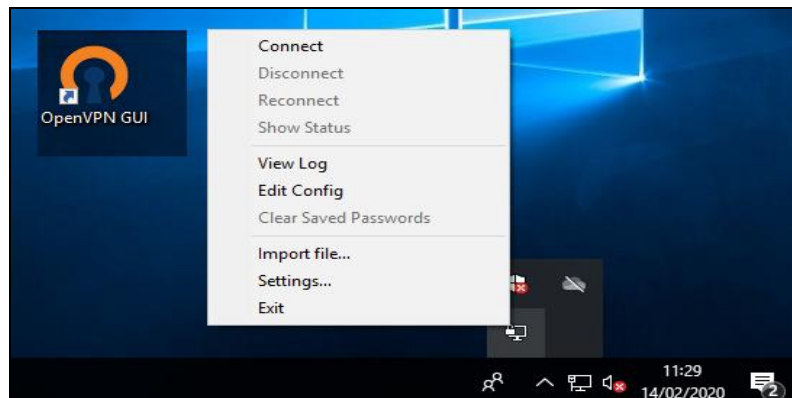
[Cancel](#) [Save and continue editing](#) [Save](#)

## 7. Verification Steps

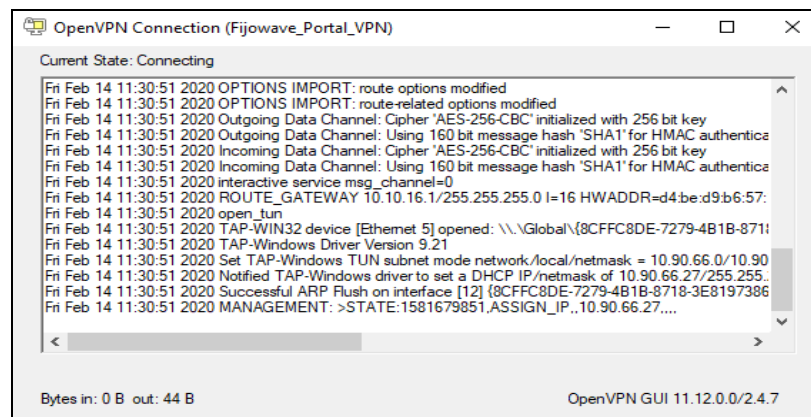
The following steps can be taken to ensure that connections between Fijowave Fijoport Remote Access and IP Office are up. The Fijowave Portal VPN is executed in order to setup the VPN connection. This connection can be verified, and the IP Office applications can be run.

### 7.1. Verify Fijowave Portal VPN

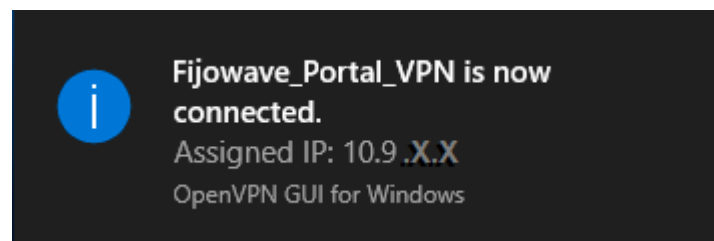
Start the VPN application by double-clicking on the shortcut. Once this is started it will appear in the system tray at the bottom right of the screen where it can be accessed and **Connect** is chosen.



The following window will appear for a few moments before the default browser is opened.

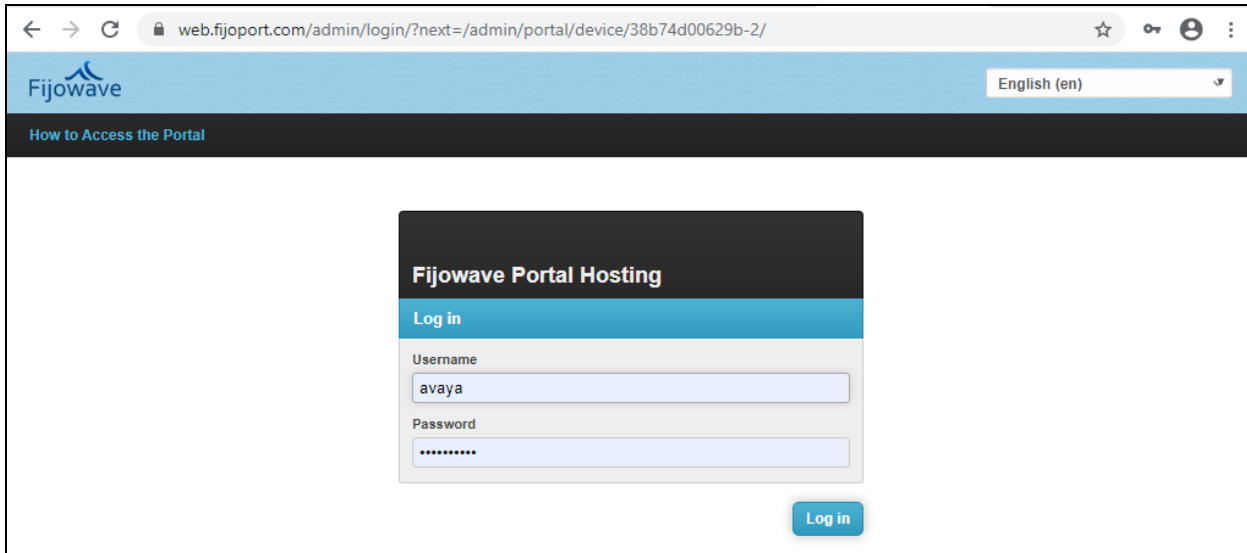


The following message verifies that the VPN is up and running and connected correctly.



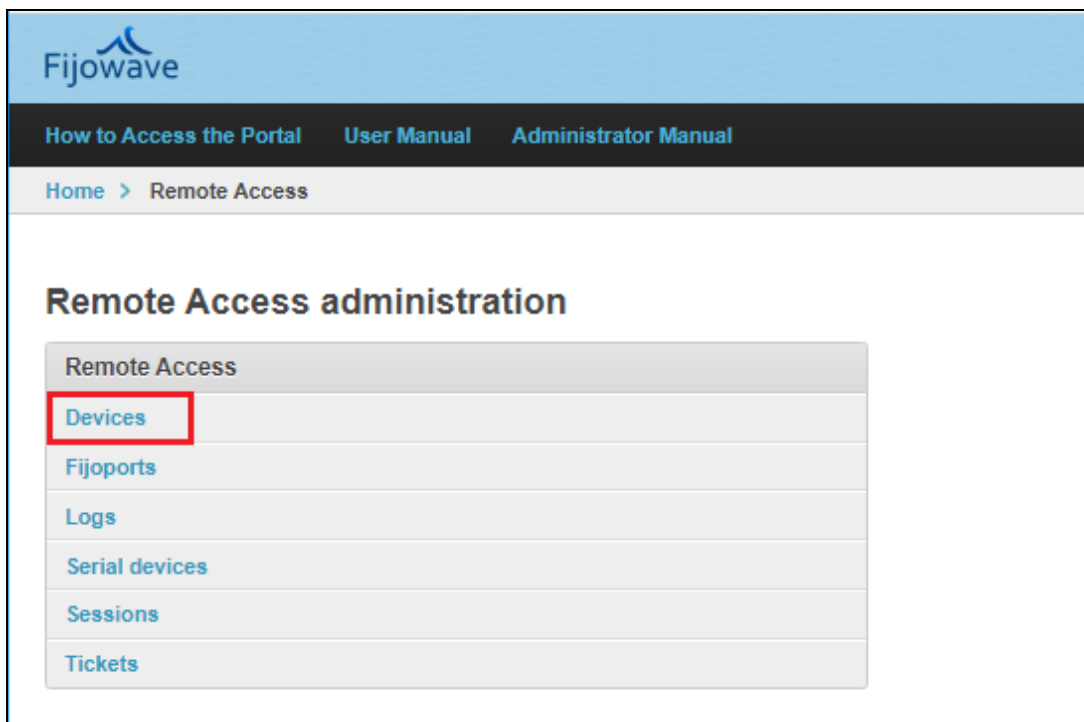
## 7.2. Verify Monitoring of IP Office

Open a URL to **web.fijoport.com** as shown below, enter the appropriate credentials and click on **Log in**.



The screenshot shows a web browser window with the URL `web.fijoport.com/admin/login/?next=/admin/portal/device/38b74d00629b-2/`. The page features the Fijowave logo and a language dropdown set to "English (en)". Below the header, there is a link "How to Access the Portal". The main content area displays a "Fijowave Portal Hosting" login form. The form includes a "Log in" header, a "Username" field with the value "avaya", a "Password" field with masked characters, and a "Log in" button.

Click on **Devices**.



The screenshot shows the Fijowave Remote Access administration page. The header includes the Fijowave logo and navigation links: "How to Access the Portal", "User Manual", and "Administrator Manual". Below the header, there is a breadcrumb trail "Home > Remote Access". The main content area is titled "Remote Access administration" and contains a list of links: "Remote Access", "Devices", "Fijoport", "Logs", "Serial devices", "Sessions", and "Tickets". The "Devices" link is highlighted with a red box.

On sites where many Fijioports are in use, click on the **Device ID** to be accessed.

Home > Remote Access > Devices

**Devices** Tickets Tickets summary

16 total  Filter

Device ID	Customer ID	Customer name	Device name	Local IP	Device model	Version	Monitored	NH	Backup	AM&S	Online	License
38b74d0015cf-1	Avaya0015cf	Avaya Devconnect	IPOV2	10.10.40.20	-		✖	✖	?	?	?	Hardware
38b74d0015cf-2	Avaya0015cf	Avaya Devconnect	IPOse	10.10.40.25	-		✖	✖	?	?	?	Hardware
38b74d0015cf-3	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-4	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-5	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-6	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-7	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d0015cf-8	Avaya0015cf	Avaya Devconnect			-		✖	✖	?	?	?	Hardware
38b74d00629b-1	Avaya00629b	Avaya Devconnect	Server Edition	10.10.40.25	Avaya IPO SE		✔	✖	?	?	✔	Hardware
38b74d00629b-2	Avaya00629b	Avaya Devconnect	IP500V2	10.10.40.20	Avaya IPO 500 V2		✔	✖	✖	✔	✔	Hardware
38b74d00629b-3	Avaya00629b	Avaya Devconnect			-		✖	✖	?	?	?	Hardware

When the appropriate **Device** is opened, click on **AM&S** at the top. This will initiate a scan of any new alarms generated by the IP500 V2.

Fijowave

How to Access the Portal User Manual Administrator Manual Paul

Home > Remote Access > Devices > 38b74d00629b-2

**Device 38b74d00629b-2** Browse Detect AM&S Network health Change History

Device name	IP500V2
Local IP	10.10.40.20
Monitored	✔
Network Health enabled	✖

Customer site

Fijioport	38b74d00629b
Customer ID	Avaya00629b
Customer name	Avaya Devconnect

Device tickets

Open	Confirmed	Resolved
3	0	7

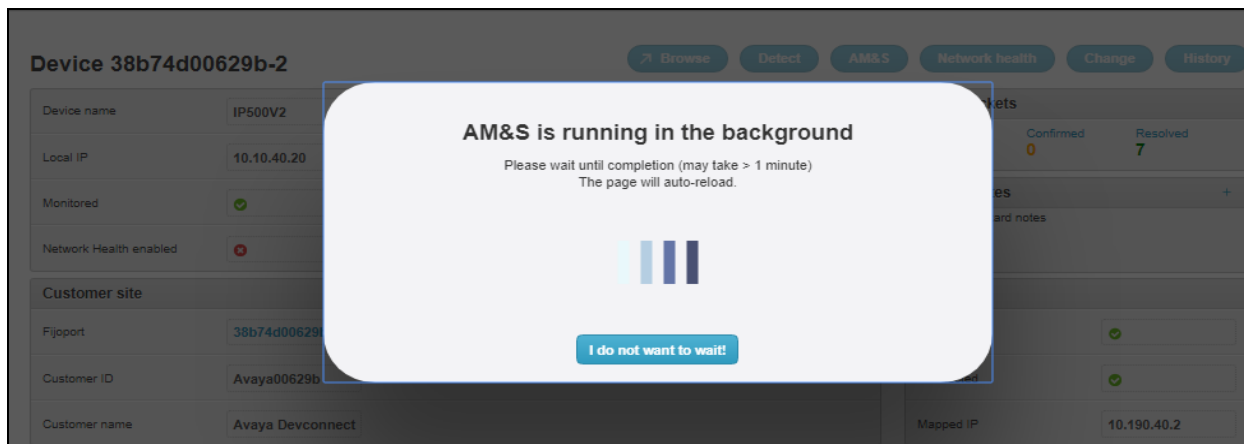
Hazard notes

No active hazard notes

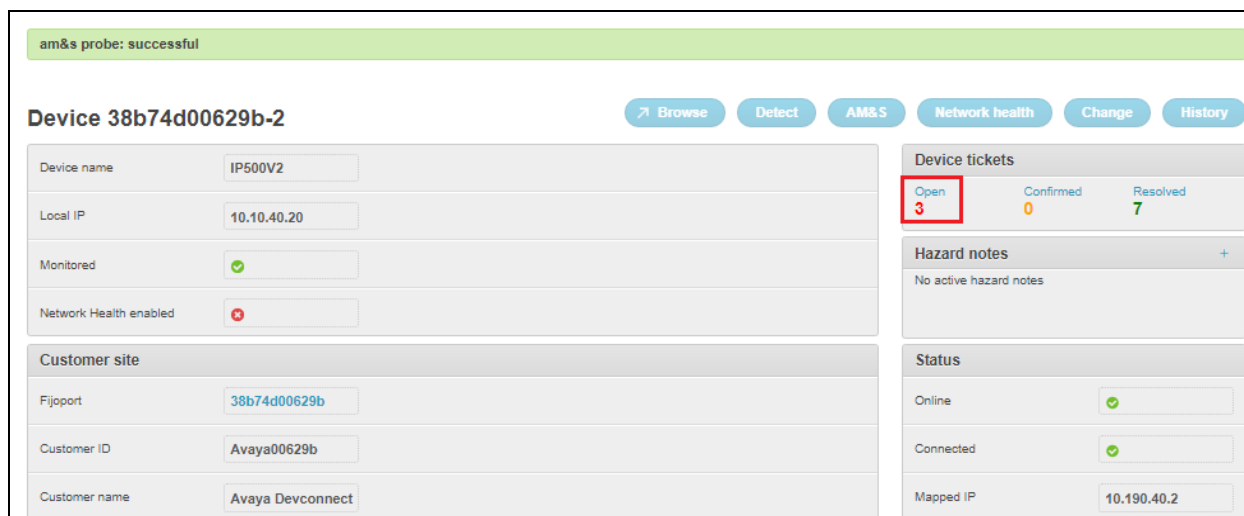
Status

Online	✔
Connected	✔
Mapped IP	10.190.40.2

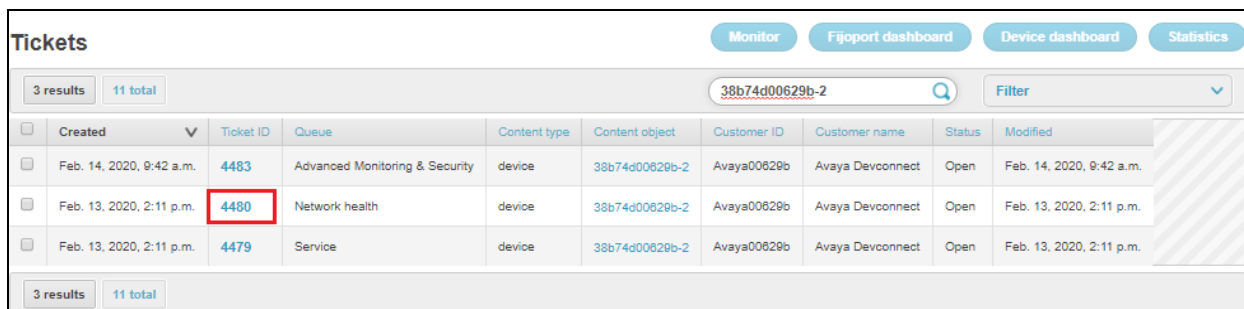
Something like the following should be displayed, showing that the data is being collected.



The message at the top of the screen shows that the am&s probe was successful. There are **3** tickets that have been opened showing that three new alarms are present. Clicking on **Open**, highlighted below will open a new window and display these three tickets.



These three tickets are shown below, the middle ticket **4480** was chosen, clicking on this will open the ticket as shown on the next page.



The ticket information shows that a **TrunkGroupAlarm** was created. There are no more details shown until the user logs into the IP Office in question to investigate the problem. This is shown in **Section 7.4**.

**Ticket 4480**ChangeHistory

Queue	Network health
Content type	device
Content object	38b74d00629b-2
Alert type	Network health   TrunkGroupAlarm
Status	Open
Description	None
Created	Feb. 13, 2020, 2:11 p.m. <small>Date this ticket was first created</small>
Modified	Feb. 13, 2020, 2:11 p.m. <small>Date this ticket was most recently changed.</small>

**Timeline**


Date	User	Status	Comment
Feb. 13, 2020, 2:11 p.m.	system	Open	-

### 7.3. Verify connection to Fijoport

Open a URL to **web.fijoport.com** as shown below, enter the appropriate credentials and click on **Log in**.

web.fijoport.com/admin/login/?next=/admin/portal/device/38b74d00629b-2/

☆ 🔑 👤 ⋮

Fijowave

English (en) ▼

How to Access the Portal

**Fijowave Portal Hosting**

Log in

Username

avaya

Password

\*\*\*\*\*

Log in

Click on **Fijoport**s.

[How to Access the Portal](#) [User Manual](#) [Administrator Manual](#)

Home

## Fijowave Portal Hosting

Remote Access

Devices

Fijoport

Logs

Serial devices

Sessions

Tickets

Dashboards

> Monitor

> Network health

> Fijoport dashboard

> Device dashboard

Status

Fijowave Portal: 3.5

Maintenance mode: no

Platform status: Healthy

Click on the appropriate **Fijoport ID**. For compliance testing only one Fijoport was used, so there is only one choice displayed. On sites where many Fijoports are in use, click on the Fijoport ID to be accessed.

Fijowave

[How to Access the Portal](#) [User Manual](#) [Administrator Manual](#) Paul

Home > Remote Access > Fijoport

## Fijoport

Tickets Tickets summary

2 total

Fijoport ID	3 ^	Customer ID	2 ^	Customer name	1 ^	Commissioned	Decommissioned	Monitored	NH	Online	Active sessions	License	Version
38b74d00629b		Avaya00629b		Avaya Devconnect		✓	✗	✓	✗	✓	0	Hardware	1.1.13-2.0

2 total



Click on **Connect** at the top.

Home > Remote Access > Fijioports > 38b74d00629b

### Fijioport 38b74d00629b

**Connect** LAN Reset Network health Change History

Customer ID	Avaya00629b
Customer name	Avaya Devconnect
Commissioned	<input checked="" type="checkbox"/>
Decommissioned	<input checked="" type="checkbox"/>
Monitored	<input checked="" type="checkbox"/>
Network Health enabled	<input checked="" type="checkbox"/>

**Fijioport tickets**

Open	Confirmed	Resolved
0	0	1

**Hazard notes**

No active hazard notes

The message displayed at the top shows that the VPN is connected successfully. The **Mapped IP** will be required in order to connect to each of the Server Edition and the IP500 V2 devices.

How to Access the Portal User Manual Administrator Manual Paul

Home > Remote Access > Fijioports > 38b74d00629b

RAS on: command completed successfully. Mapped range: 10.190.40.0/24. Support range: 10.90.66.27. Race range: 10.90.66.27.

### Fijioport 38b74d00629b

Disconnect LAN Reset Network health Change History

Customer ID	Avaya00629b
Customer name	Avaya Devconnect
Commissioned	<input checked="" type="checkbox"/>
Decommissioned	<input checked="" type="checkbox"/>
Monitored	<input checked="" type="checkbox"/>
Network Health enabled	<input checked="" type="checkbox"/>

**Fijioport tickets**

Open	Confirmed	Resolved
0	0	1

**Device tickets**

Open	Confirmed	Resolved
3	0	7

**Hazard notes**

No active hazard notes

**Status**

Online	<input checked="" type="checkbox"/>
Public IP	165.225.196.97
License	Hardware

**RAS**

Connected	<input checked="" type="checkbox"/>
Fijioport mapped IP	10.190.40.254
Active sessions	1

Device	Device name	Local IP	Device model	Monitored	Network Health	Online	Mapped IP	Actions
Device 1	Server Edition	10.10.40.25	Avaya IPO SE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10.190.1.1	Browse
Device 2	IP500V2	10.10.40.20	Avaya IPO 500 V2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10.190.1.2	Browse
Device 3		-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

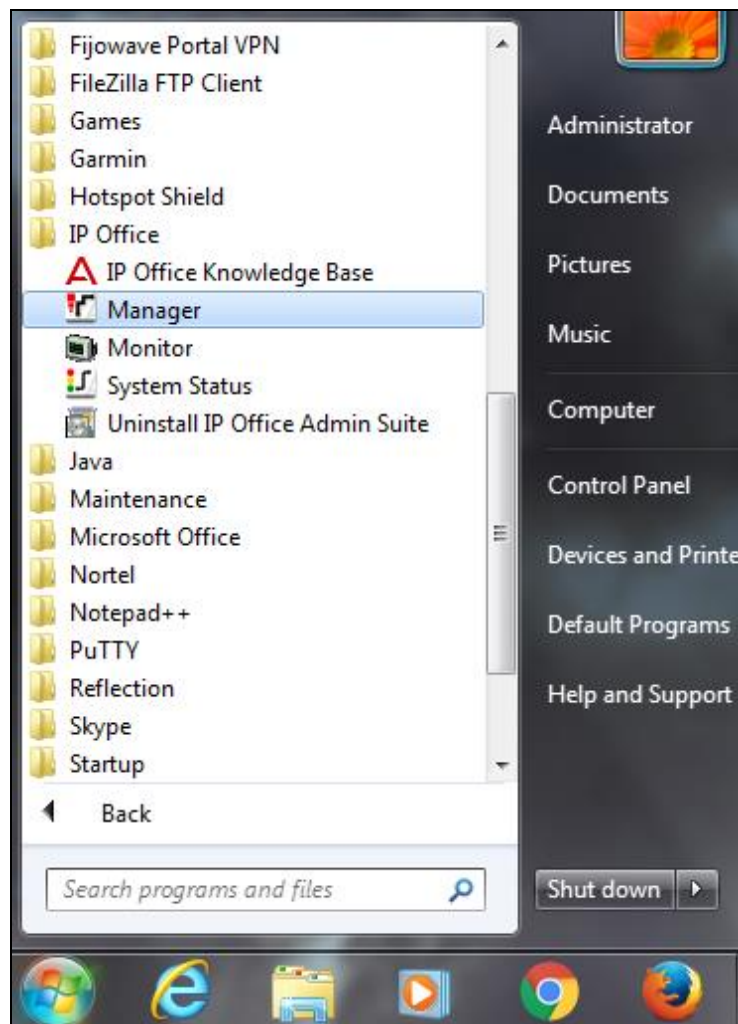
Using the **Mapped IP** from above the IP Office Manager and System Monitor can be used to access the IP office using these IP addresses to connect to each device, see **Section 7.4**.

## 7.4. Verify Remote Access IP Office connections

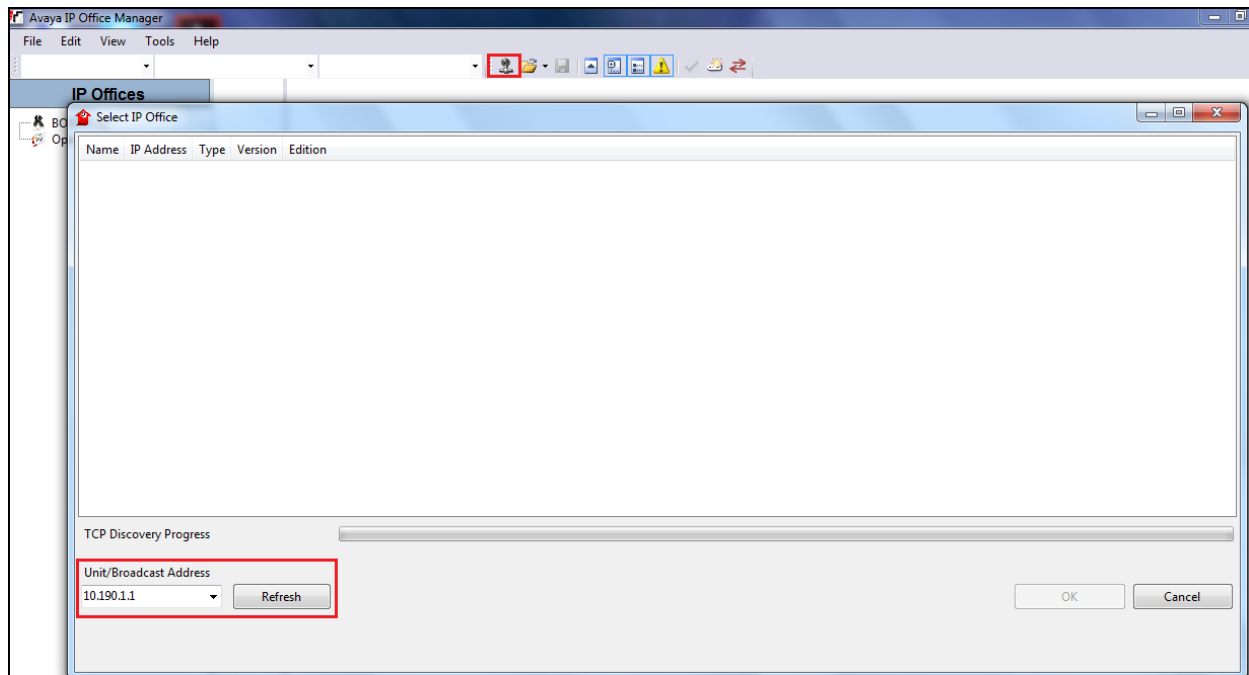
Once the secure tunnel is established to the IP Office, the IP Office clients can be used to connect to each of the Server Edition and the IP500 V2. To verify that Fijoport Remote Access is fully working, from the PC running the Fijowave Portal VPN, open the three IP Office applications, IP Office Manager, Monitor and System Status.

### 7.4.1. Verify IP Office Manager

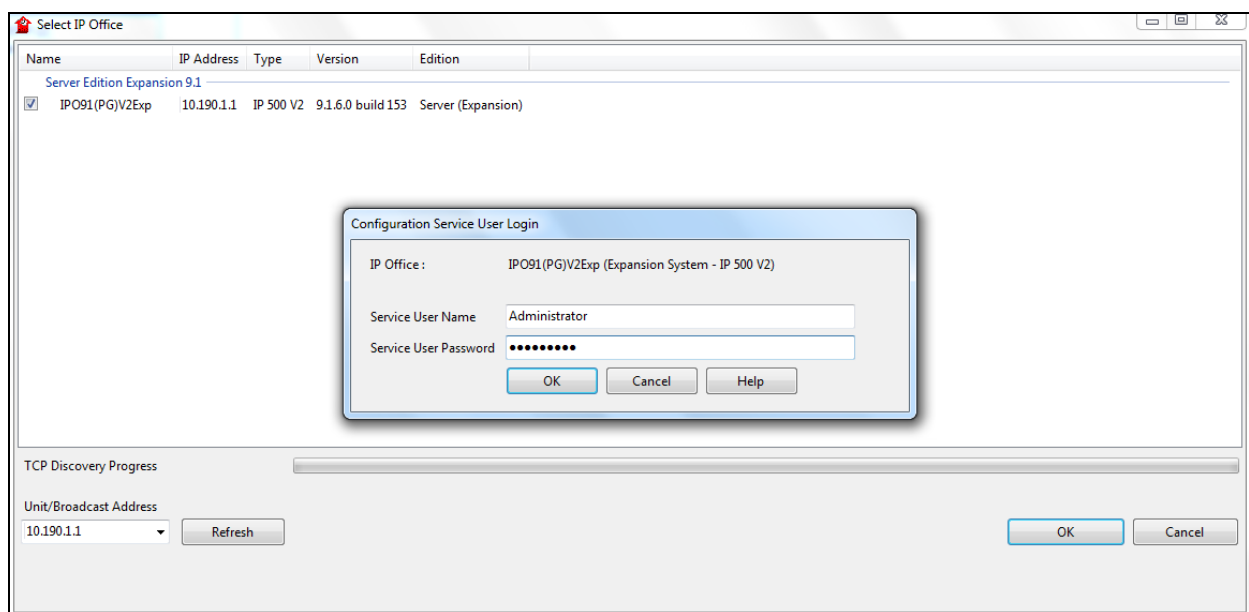
Open the IP Office Manager either from the desktop shortcut or from **Programs → IP Office** as shown below.



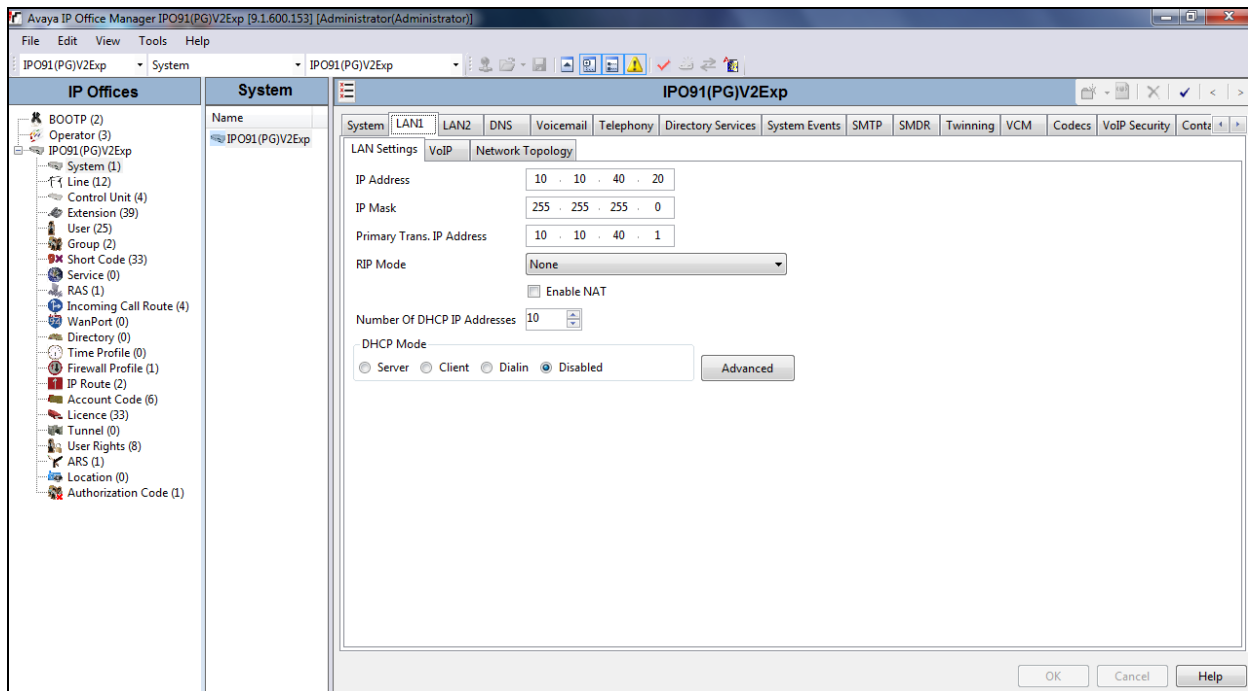
The **Unit Broadcast Address** will need to be set to that of the **Mapped IP** found in **Section 7.3**. The mapped IP address is entered, and **Refresh** is pressed and that should bring up the IP Office unit.



Select the IP Office unit and click on **OK** at the bottom of the screen and this will bring up another smaller window where the IP Office username and password are entered and again **OK** is pressed on the smaller window.



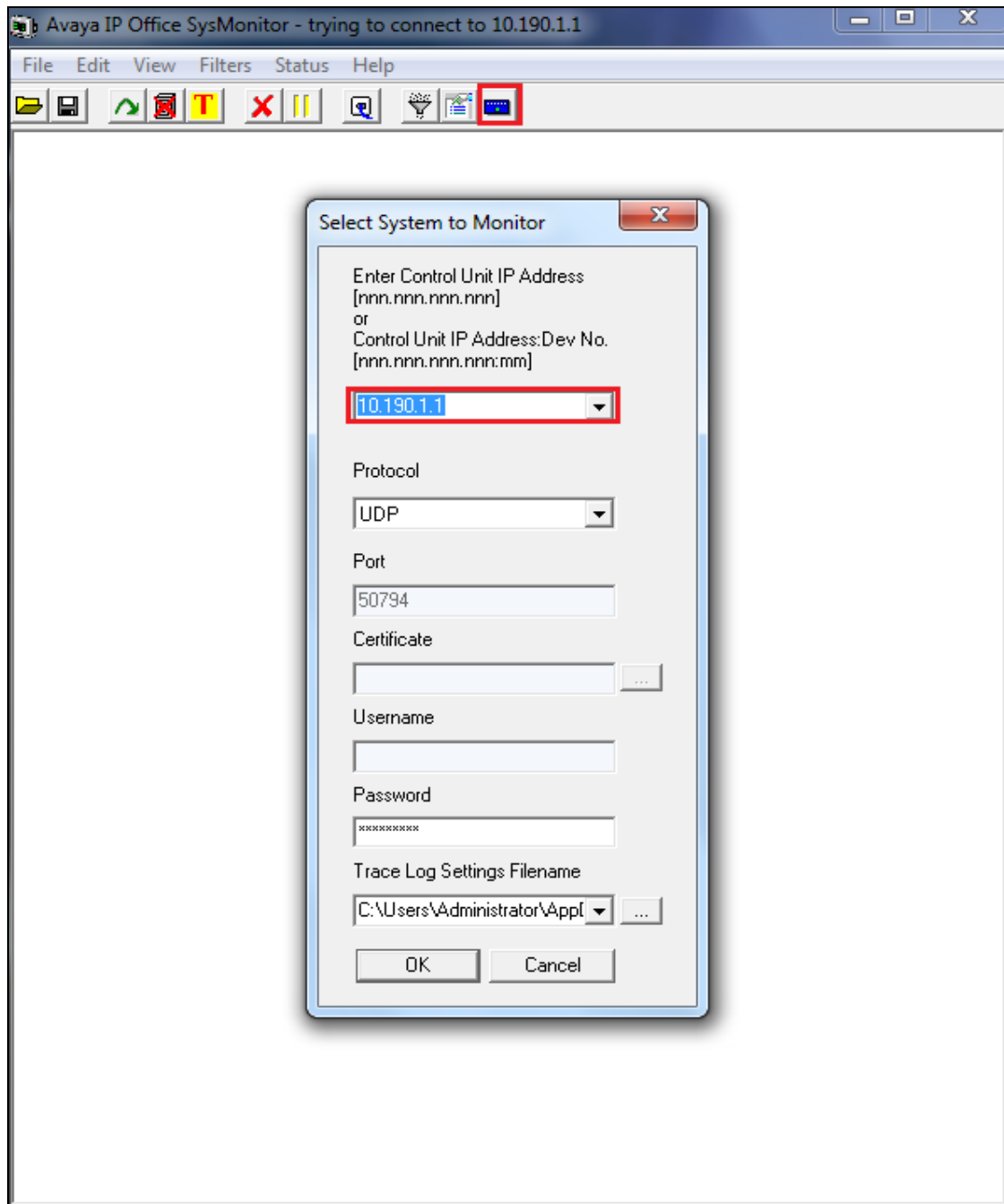
The IP Office Manager screen should be opened and should appear something like shown below where changed can be made and saved (not shown).



### 7.4.2. Verify IP Office Monitor

IP Office Monitor is accessed in the same way as IP Office Manager is from **Section 7.4.1**. Once opened the connection information must be changed to reflect the mapped IP address instead of the real IP Office address.

Click on the connection icon highlighted at the top of the screen and enter the mapped IP address for the IP Office as per **Section 7.3**. Click on OK and the monitor should start correctly.



The monitor should now display information on IP Office correctly.

```
***** SysMonitor v9.1.6.0 build 153 *****

***** contact made with 10.190.1.1 at 14:30:56 13/4/2016 *****

***** System (10.10.40.20) has been up and running for 6days, 5hrs, 57mins a

***** Warning: TEXT File Logging selected *****

***** Warning: TEXT Logging to C:\Program Files (x86)\Avaya\IP Office\Monito
539848974mS PRN: Monitor Started IP=10.10.40.202 S-Edition Expansion (V2) 9.1.6.
(Supports Unicode, System Locale is default)
539848975mS PRN: LAW=A PRI=2, BRI=2, ALOG=4, VCOMP=32, MDM=0, WAN=0, MODU=0 LANM
539851975mS PRN: +++ START OF ALARM LOG DUMP +++
539851975mS PRN: ALARM: 16/02/2015 14:37:18 IP 500 V2 9.1.0.0 build 437 <Log s
539851975mS PRN: +++ END OF ALARM LOG DUMP +++
539852975mS PRN: +++ START OF UDP MONITOR CLIENT DUMP +++
539852975mS PRN: CLIENT: IPAddress=10.10.40.202 UDPPort=54690 LastReceived=53984
539852975mS PRN: ++++ END OF UDP MONITOR CLIENT DUMP ++++
539860070mS SIP Rx: UDP 10.10.40.155:5071 -> 10.10.40.20:5060
REGISTER sip:devconnect.local:5060 SIP/2.0
Via: SIP/2.0/UDP 10.10.40.155:5071;branch=z9hG4bKe2556882579b
Max-Forwards: 70
From: <sip:5221@devconnect.local>;tag=3a01f07a5c
To: <sip:5221@devconnect.local>
Call-ID: 37984b8966da6387
CSeq: 28262 REGISTER
Accept-Encoding: nt-im-1.0
Allow-Events: vq-rtcp,dialog
Contact: <sip:5221@10.10.40.155:5071>
Expires: 300
Supported: path
User-Agent: Avaya IP Phone 1140E (SIP1140e.04.03.12.00)
x-nt-GUID: 0024B5F6EA0B
Allow: INVITE, ACK, OPTIONS, CANCEL, BYE, REFER, INFO, MESSAG
Content-Length: 0

539860072mS SIP Reg/Opt Rx: phone
REGISTER sip:devconnect.local:5060 SIP/2.0
Via: SIP/2.0/UDP 10.10.40.155:5071;branch=z9hG4bKe2556882579b
Max-Forwards: 70
From: <sip:5221@devconnect.local>;tag=3a01f07a5c
```

### 7.4.3. Verify IP Office System Status

IP Office System Status is accessed in the same way as IP Office Manager is from **Section 7.4.1**. Once opened the connection information must be changed to reflect the mapped IP address instead of the real IP Office address.

Enter the mapped IP address for the IP Office as per **Section 7.3**, enter the log in credentials and click on **Logon** and the monitor should start correctly.

Avaya IP Office System Status

**AVAYA** IP Office System Status

Help Exit About

Online Offline

**Logon**

Control Unit IP Address: 10.190.1.1

Services Base TCP Port: 50804

User Name: Administrator

Password: ●●●●●●●●●●

☐ Auto reconnect

☒ Secure connection

Logon

IP Office System Status Version 9.1.6.0 build 153

The IP Office System Status should open correctly and display the correct IP Office information as shown below.

**AVAYA** IP Office System Status

Help Snapshot LogOff Exit About

**System**

- Alarms (4)
  - Configuration (0)
  - Service (0)
- Trunks (4)
  - Link (0)
  - Call Quality of Service
- Security (0)
- Extensions (19)
  - 5201**
  - 5202
  - 5203
  - 5204
  - 5205
  - 5206
  - 5207
  - 5208
  - 5211
  - 5212
  - 5213
  - 5214
  - 5215
  - 5216
  - 5217
  - 5218
  - 5221
  - 5250
  - 5251
- Trunks (12)
- Active Calls
- Resources
- Voicemail
- IP Networking
- Locations

**Extension Status**

Extension Number: 5201

Slot: 1

Port: 1

Active Location: None

Telephone Type: 9408

Current User Extension Number: 5201

Current User Name: 5201

Forwarding: Forward On No Answer 955201  
Forward On Busy 955201

Trinning: Off

Do Not Disturb: Off

Message Waiting: Off

Number of New Messages:

Phone Manager Type: None

Packet Loss Fraction:

Jitter:

Round Trip Delay:

Connection Type:

Codec:

Remote Media Address:

Button Number	Button Type	Call Ref	Current State	Time in State	Calling Number or ...	Direction	Other Party
1	CA		Idle	00:01:23			
2	CA		Idle				

Trace Trace All Pause Call Details Print... Save As...

14:33:20 Online



## 8. Conclusion

These Application Notes describe the configuration steps required for provisioning Fijowave's Fijoport Advanced Monitoring to interoperate with Avaya IP Office IP500V2 standalone R11.0. It has been verified that the Fijoport solution allows both the monitoring of the IP Office IP500 V2 and a secure connection to IP Office to allow the end user to connect to IP Office using IP Office Manager, IP Office Monitor tool and IP Office System Status tools. Please refer to **Section 2.2** for test results and observations.

## 9. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <http://support.avaya.com> where the following documents can be obtained.

Product documentation for Avaya products may be found at <http://support.avaya.com>.

- [1] Administering Avaya IP Office™ Platform with Manager, Release 11
- [2] Avaya IP Office™ Platform Documentation Catalog Release 11
- [3] Avaya IP Office™ Platform 11 Deploying Avaya IP Office™ Platform Servers as Virtual Machines

Technical support for the Fijowave Fijoport Remote Access product can be obtained as follows:

- Web: <http://www.fijowave.com>
- Email: [support@fijowave.com](mailto:support@fijowave.com)
- Help desk: +353 1 525 3072

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