



## BRPrint Auditor



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Created by BIE P&S Product Planning

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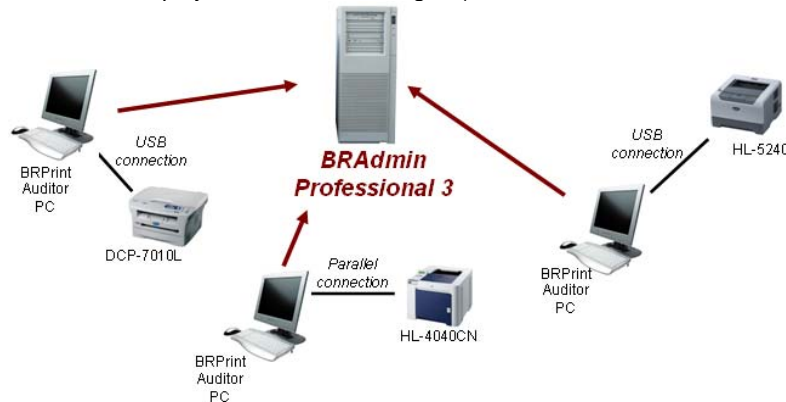
# 1 Introduction

BRAdmin Professional 3 is capable of collecting information from devices which are connected via a USB or parallel cable, commonly referred to as locally-connected devices.

To do this, each PC with a locally-connected device attached to it must have special Auditor software installed and be connected to a network which is either, in reach of BRAdmin or an SMTP (e-mail) server. This special Auditor software is called **BRPrint Auditor** which contacts the locally-connected device on a regular basis to retrieve its information and then stores it.

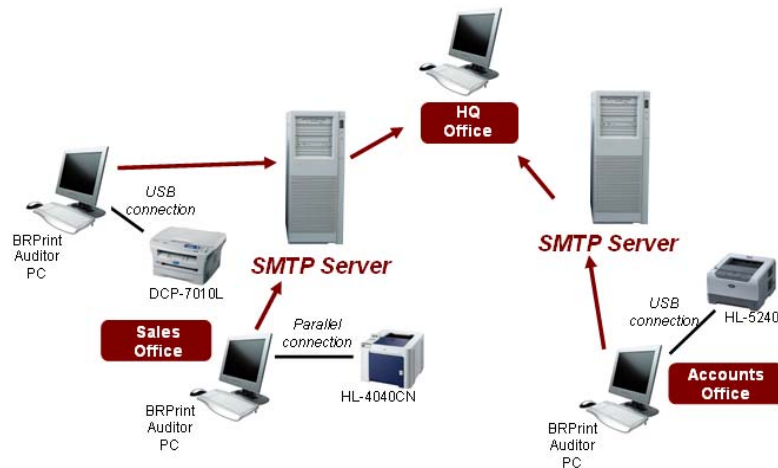
There are two ways in which this software application can function:

**1. With BRAdmin** (BRAdmin collects the information stored on the computer running BRPrint Auditor and displays the results as a log file).



**Image 1 - BRPrint Auditor and BRAdmin Professional 3**

**2. Independently** (where BRPrint Auditor uses SMTP push to independently send the collected data as an e-mail attachment to a nominated person).



**Image 2 - BRPrint Auditor using SMTP push**

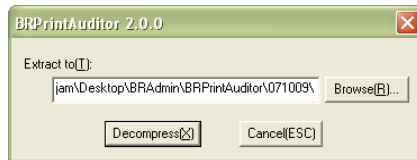
There are a few different ways in which you can install and configure BRPrint Auditor. To choose the best method you need to consider how and why you want to use it. At this stage there is no definitive set of rules which say how you must do this as it depends upon a number of variables, such as deployment environment, security requirements, size of network etc.

The remainder of this chapter describes each method of installation and configuration and makes references to these variables. Therefore, it is recommended that you read through this chapter before installing and configuring BRPrint Auditor to determine the best solution for yourself.

## 2 Installing BRPrint Auditor

BRPrint Auditor can be installed on a Windows® Server 2003, Windows® 2000/XP or Windows Vista® PC. It will run as a background service and will not stop the operation of the PC or disrupt any of its activities.

The latest version of BRPrint Auditor is available for download from <http://solutions.brother.com>. Before you can install it, BRPrint Auditor needs to be extracted to a location on your computer. This is achieved by double clicking on the **Baxxxx.exe** file and specifying a location where you want the extracted files to be placed.



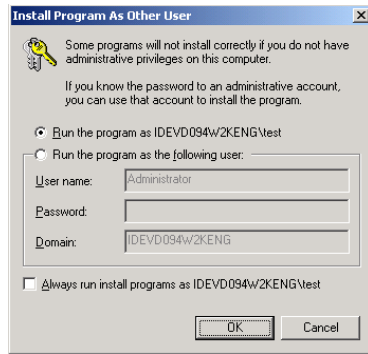
**Image 3 - Completing the Installer**

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From here you now have two ways in which you can install the software:

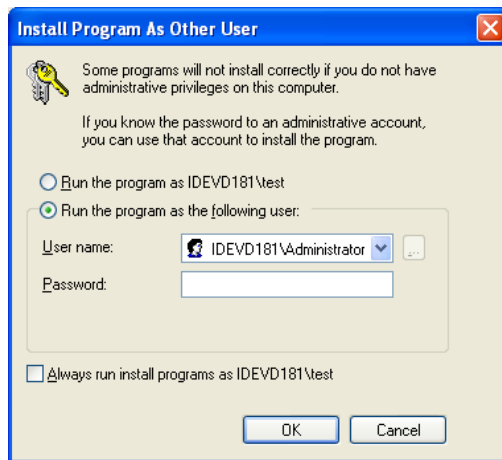
1. Standard install - by double clicking the file and installing the software as a normal Windows® application (following the on-screen questions as they are asked).
2. Silent install - by specifying special **switches**. These switches can be used to automate the installation and configuration of the software.

When you install BRPrint onto a Windows 2000/XP/Vista client PC, it must be logged in as an Administrator or have the correct user privileges. If it has neither, then the following messages may appear:



**Image 4 - Administrator privileges request screen (Windows 2000)**

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**Image 5 - Administrator privileges request screen (Windows XP)**

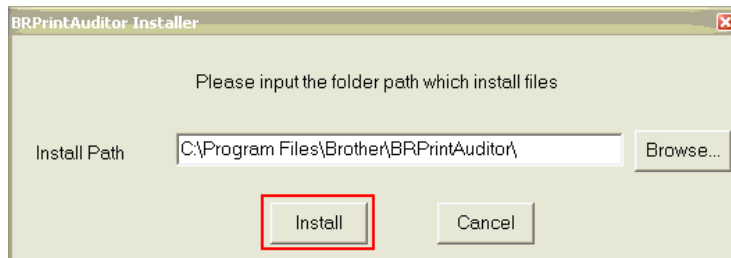
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Should you see these messages then you will need someone with the correct privileges to enter their logon details to authorise the installation.

## **2.1 How to install: Standard install**

This is the simplest way of installing BRPrint Auditor. It uses a standard Windows® style Graphical User Interface (GUI) to guide you through the processes.

To use this method of installation simply double click **Install.exe** file where you will see the following screen.



**Image 6 - Install Path**

---

By default, BRPrint Auditor will be installed to **Program Files\Brother\BRPrintAuditor**. However, if you wish to change this click the **Browse** button and specify your preferred location. After this, click the **Install** button. When the installation has finished, you will see the **Install Complete!** message. At this point, click the **Finish** button. You may be asked to restart your PC.

BRPrint Auditor should now be installed and ready to be configured (which is explained in chapter 2.3).

## ***2.2 How to Install: Silent Installation method***

This is a more advanced method of installation that offers more flexibility and choice. Firstly, it allows you to pre-configure BRPrint Auditor prior to the actual install, which is useful when it needs to be deployed to many computers over a large network. Secondly, it allows you to remove the e-mail notification feature, which is useful if you only want BRPrint Auditor to communicate through BRAdmin and do not want anybody but yourself to receive e-mail updates.

However, should you need BRPrint Auditor to function independently, in other words without BRAdmin, and receive regular e-mail updates you will need to configure a schedule. This schedule cannot be configured through the silent installation therefore has to be done separately. Since there is no option in the GUI for configuring it either, the procedure is a little more complex. Please refer to chapter 2.4 for further information.

The silent installation method supports the use of **Switches**. These switches can be used to install and configure the software automatically, meaning that the user does not get asked any questions, or presented with a GUI. Therefore, switches have to be entered manually through the **Windows® Command Prompt**. The following switches are supported:

- a (Server IP Address)
- p (Port number)
- l (Location)
- c (Contact)
- d (Location on your computer want BRPrint Auditor to be installed to)
- m (Removes the e-mail notification section)

When you use **-l** and **-c**, please use the “” characters to specify the actual values, for example, if the location value is **Marketing** you would enter: **-l 'Marketing'**. Here is another example:

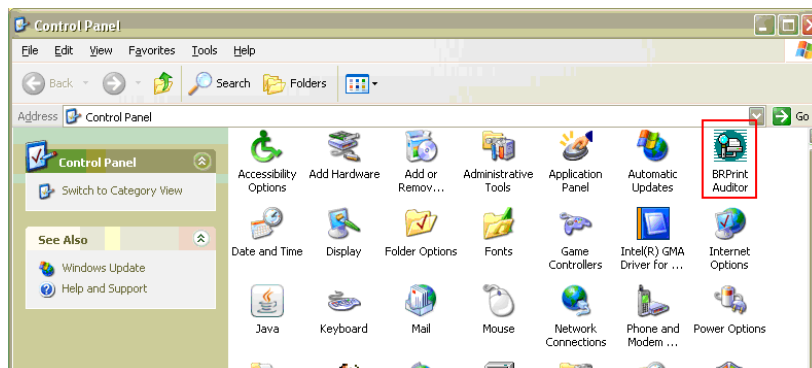
```
Install.exe -a 10.134.111.111 -p 11630 -l 'Marketing' -c 'James'
```

This will install the software onto the PC and configure it to communicate with BRAdmin on IP address **10.134.111.111**; use a port number of **11630**; set the location to **Marketing** and set the contact name to **James**.

These switched values can either be written out manually e.g. in Windows® command prompt, or pre-programmed into a **Batch file**. This is useful for administrators who many require more than one configuration but require the entire roll out process to be automated or compatible with their current network system. Furthermore, by using a compiler, **batch files**, along with the **install.exe** program, can be converted into an **MSI** file, which is the type of installer preferred by many leading network operating systems.

### 3 Configuring BRPrint Auditor

To configure and check the settings of BRPrint Auditor go into **Windows® Control Panel** and double-click the **BRPrint Auditor** icon.



**Image 7 - BRPrint Auditor icon on Windows Control Panel**

From here you can configure BRPrint Auditor as required. Please note that some of these values may already be filled out depending on your method of installation. The values in the lower portion, as outlined in blue, can either be filled out manually, pre-configured, as discussed in chapter 2.4, or automatically through BRAdmin, which is discussed in chapter 2.8.

 A screenshot of the "BRPrintAuditor" configuration dialog box. The dialog has a title bar with "BRPrintAuditor" and a close button. It contains several fields and controls:
 

- Auditor Server:** An empty text field.
- Port Number:** A text field containing "11562".
- Location:** An empty text field.
- Contact:** An empty text field.
- Service Control:** A label "BRPrintAuditor is running" and a "Stop" button.
- Email Notification:** A checkbox that is unchecked.
- Email reports:** A checkbox that is unchecked.
- Email Address:** An empty text field.
- SMTP Server Name:** An empty text field.
- SMTP Port:** A text field containing "25".
- Email report Format:** Radio buttons for "XML" (selected) and "CSV".

 Red arrows point from explanatory text on the right to the corresponding fields in the dialog. A blue dashed box encloses the "Email Notification" section and the "Email Address", "SMTP Server Name", "SMTP Port", and "Email report Format" fields.
 

The IP address, or node name, of the computer running BRAdmin Professional 3. Please note that if you do not specify this address BRPrint Auditor will be open to any computer running BRAdmin Professional 3.

The port number to be used between BRAdmin Professional 3 and BRPrint Auditor. The default port number is 11562. Both numbers must match

The location & contact information of the PC running the local agent software. (Optional)

Turn on E-mail notifications & reports

The E-mail address for where you want notifications & reports to be sent

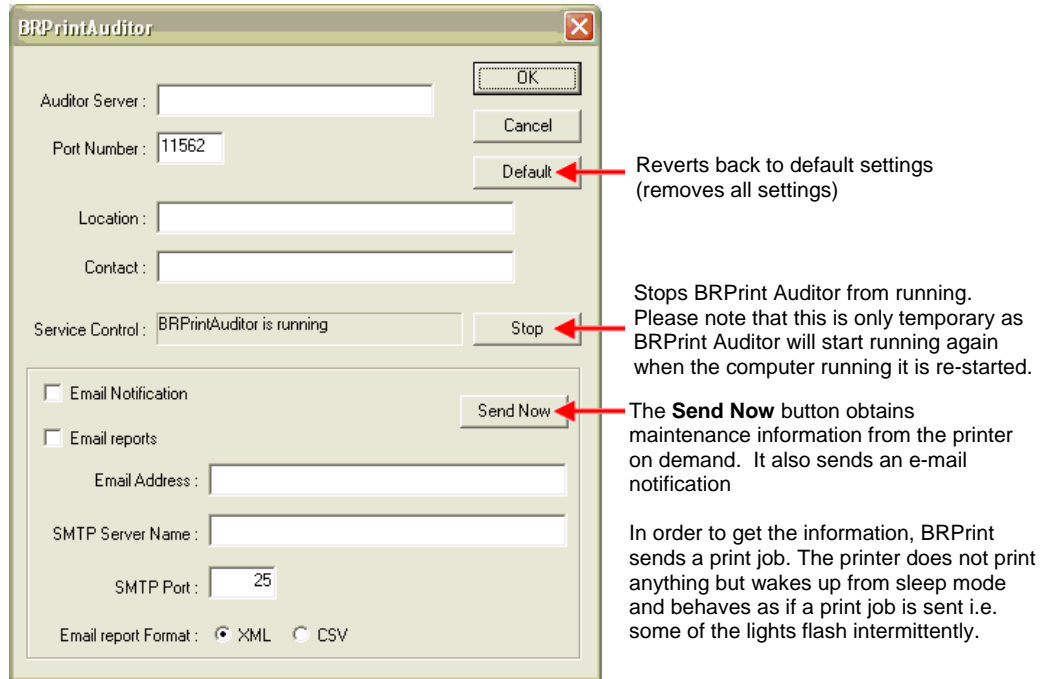
SMTP sever address for where you E-mails are managed

SMTP port number (default is 25)

Format in which you want your E-mail reports sent. (XML is new to this version of BRPrint Auditor)

This part of BRPrint Auditor can be manually updated or automatically set through BRAdmin Professional 3. To learn how to do it automatically, go to chapter 2.9.

**Image 8 - BRPrint Auditor Configuration**



**Image 9 - BRPrint Auditor Configuration**

## 4 Pre-configuring & manually updating e-mail notifications / reports

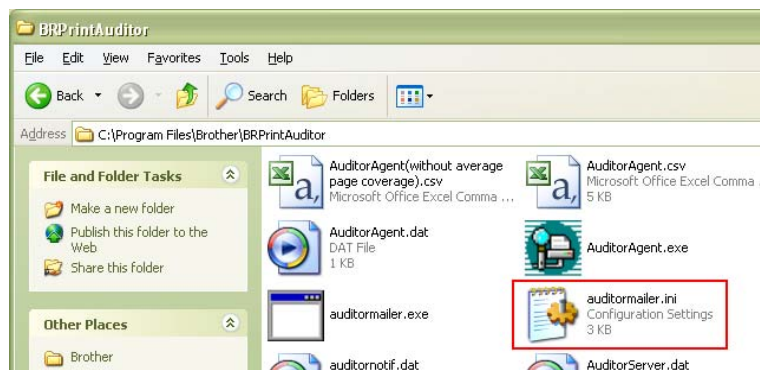
In addition to its ability to be configured through Windows® Control Panel, BRPrint Auditor can also be configured more manually by changing two of its installation files. Albeit more complex, this process allows you to pre-configure BRPrint Auditor prior to installation and configure and E-mail schedule, which is required if it is to be run independently from BRAdmin. It is also useful to systems administrators who need to roll out BRPrint Auditor to many clients PC's over a large network.

The installation files that can be configured are **auditormailer.ini** and **brausc3a.ini**. The table below highlights which file controls which function.

	Way 1 (by GUI)	Way 2 (by file change)
E-mail Report Switch	BRPrint Auditor	auditormailer.ini
E-mail Address	BRPrint Auditor	auditormailer.ini
E-mail Format	BRPrint Auditor	auditormailer.ini
SMTP Server	BRPrint Auditor	auditormailer.ini
SMTP Port	BRPrint Auditor	auditormailer.ini
E-mail Schedule	BRAdmin Pro3	brausc3a.ini

The following steps show you how to pre-configure BRPrint Auditor in order to achieve this:

Before installation, locate the file named **auditormailer.ini**, which by default will be found within the **files** folder of **BRPASETUP**. If you have already installed BRPrint Auditor and want to configure, or alter a previous configuration, the **auditormailer.ini** file can be found, by default, in **\\Program Files\\Brother\\BRPrintAuditor**.

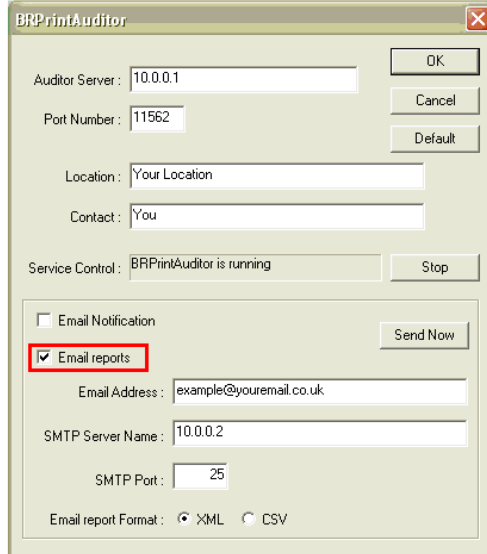


**Image 10 – Selecting the ‘auditormailer.ini’ file within Windows Control Panel**

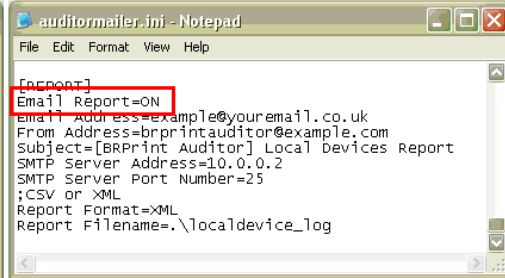
When you have located the **auditormailer.ini** file, open it in a text editor, such as Windows® Notepad, and update the settings which you want to pre-configure (as shown in the next few steps)

## Enabling the e-mail report function

### Through the GUI



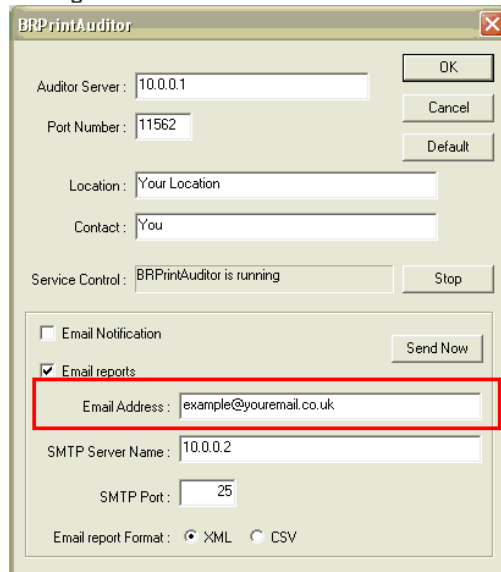
### Through file change



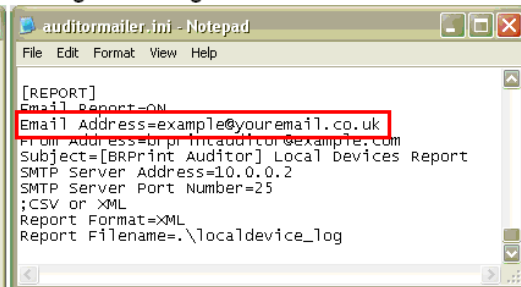
**Image 11 - Changing the e-mail report function**

## Changing the e-mail address for where you want the log data to be sent

### Through the GUI



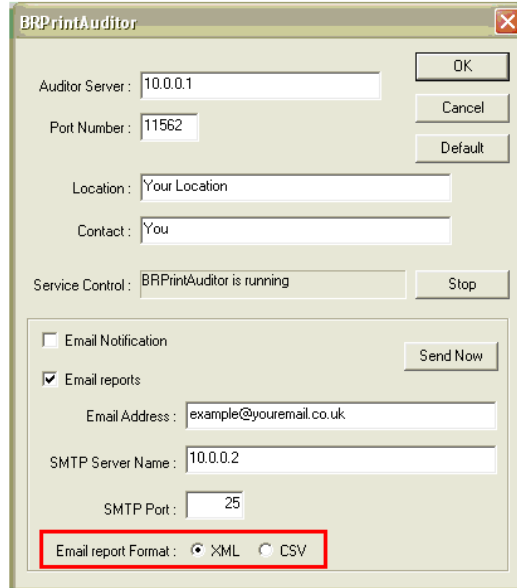
### Through file change



**Image 12 - Changing the e-mail address**

## Changing the report format

### Through the GUI



### Through file change

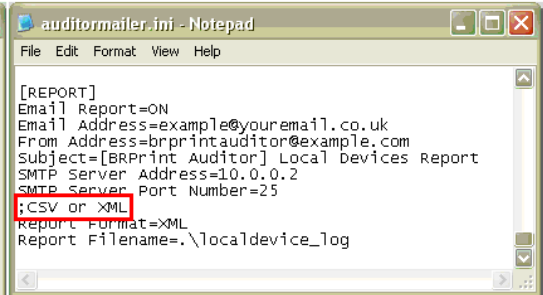
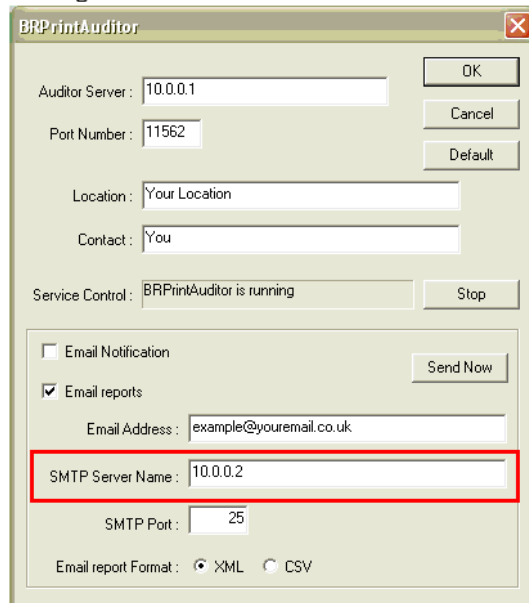


Image 13 - Changing the e-mail format

## Changing the SMTP server address

### Through the GUI



### Through file change

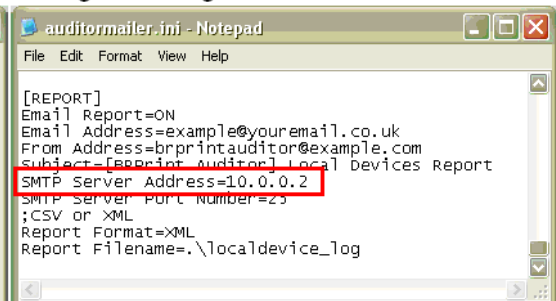
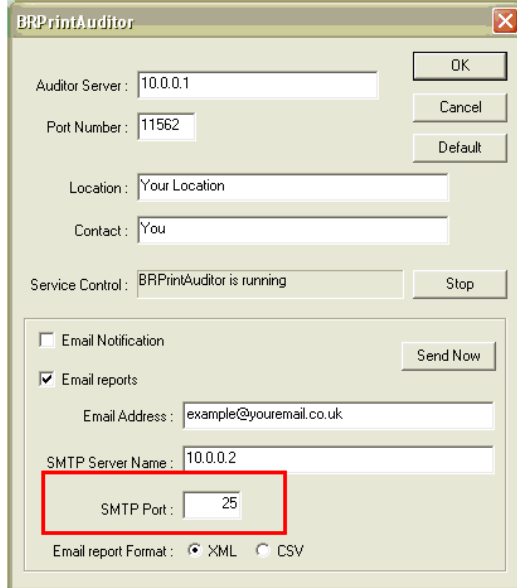


Image 14 - Changing the SMTP server address

## Changing the SMTP port (default 25)

### Through the GUI



### Through file change

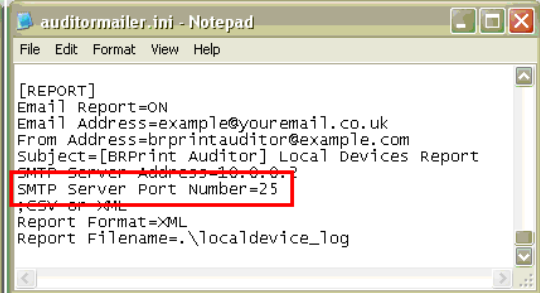


Image 15 - Changing the SMTP port

To configure the e-mail schedule you will need to open a different file called **brausc3a.ini** which can be found in the same location as **auditormailer.ini**. This by default will be found within the **files** folder of **BRPASetup**. Once you have installed BRPrint Auditor, you can go back and edit this file which, by default, is stored in **\Program Files\Brother\BRPrintAuditor**.

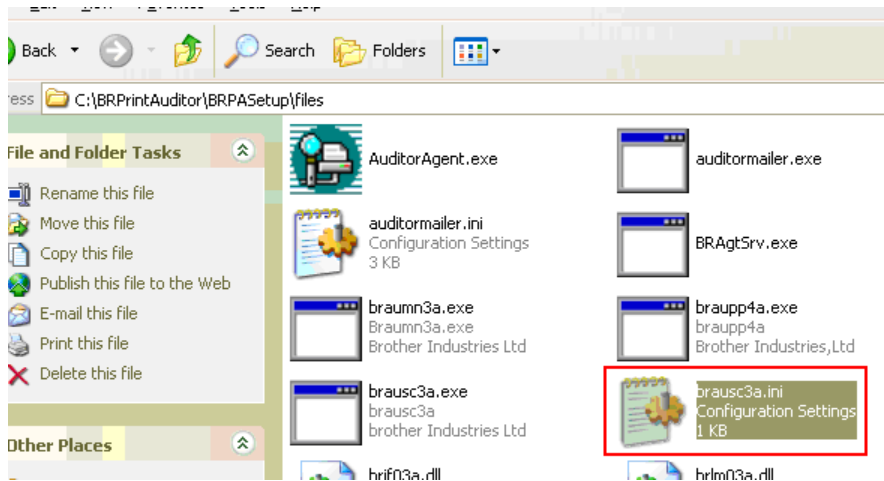
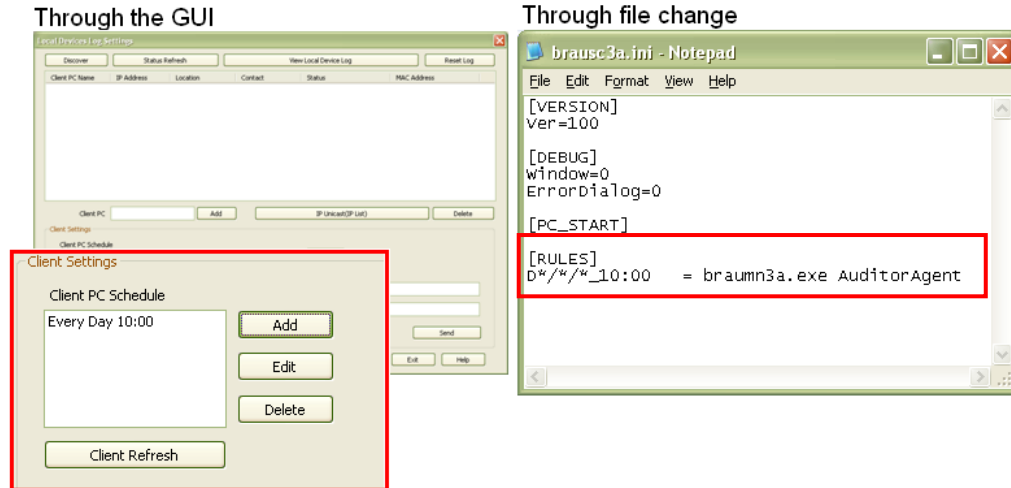


Image 16 – Selecting the 'brausc3a.ini' file within Windows Control Panel

Open this file in a text editor, such as Windows® Notepad and update the schedule as required.

The example below shows you how to change the client PC schedule to send an e-mail report every day at 18:00.



**Image 17 – Configuring the e-mail schedule**

To configure the e-mail schedule to send an update on a specific time and date (for example at 11:22 on 20th of Dec '07) simply program the syntax as follows: **D2007/12/20\_11:22**. 'D' means date.

To configure the e-mail schedule to send an update every month at a specific time (for example at 6:00 every 1st of the month) simply program the syntax as follows: **D\*/\*/1\_06:00**.

To configure the e-mail schedule to send an update once a week on a specific day and time (for example at 12:00 every Saturday) simply program the syntax as follows: **W7\_23:00**. "W" means week. W1 = Sunday, W2 = Monday etc.

## 5 Testing BRPrint Auditor

If you wish to test that BRPrint Auditor is working correctly, do the following:

1. Go to the **BRPrintAuditor** folder on your PC HDD (unless you changed the location of the folder during the software installation, the folder will be: **Program Files\Brother\BRPrintAuditor**).
2. Make sure the Brother device is on-line and ready to print.
3. Run the **braumn3a.exe** program as follows:

Braumn3a.exe auditoragent (this is best achieved using Windows® command prompt)

The Braumn3a.exe program is the actual software that communicates with the Brother device. As you run the Braumn3a.exe program with the **auditoragent** switch, the LED on your Brother device should start to flash as BRPrint Auditor queries the machine. This process may take up to one minute.

Should you run the Braumn3a.exe program without the auditoragent switch, the data LED on your Brother device will probably flash, however, the **auditoragent.dat** file will not be created.

Once the process is complete, the device LED will stop flashing and the file called auditoragent.dat will be created in the BRPrint folder. This file contains the device information and can be viewed in Notepad.

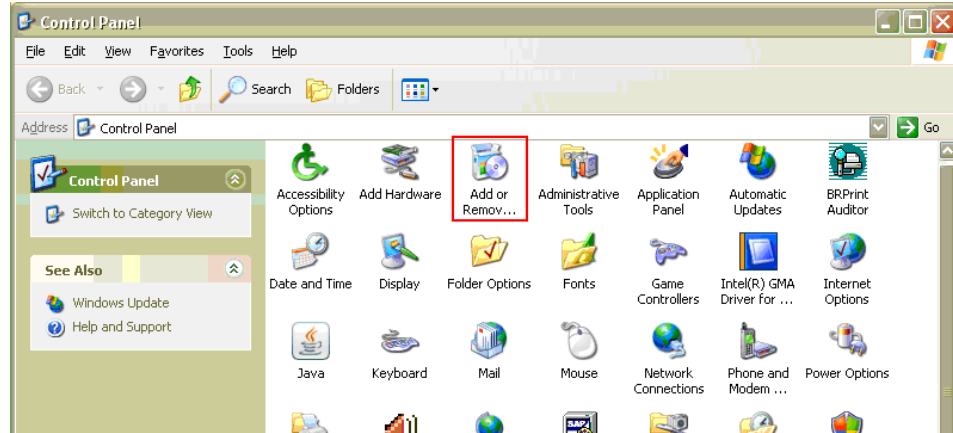
An example file is shown below:

```
<Client PC>,'Test'  
PC name,'User1'  
Number of Printers,'1'  
Version of Software,'1.06'  
Date&Time,'2007/10/24 10:27:18'  
  
<Printer>,''  
  
Printer Name,'HL-2150N'  
Port Name,'USB001'  
IEEE1284 ID  
information,'MFG:Brother;CMD:PJL,PCL,PCLXL;MDL:HL-2150N  
series;CLS:PRINTER; \  
ROM Version,'VERSION=0.17'  
Printer Ser.No,'Serial Number'  
Drum Counter,'32'  
STATUS,'CODE=10001'  
Page count,'25'
```

Please note that the information displayed will vary depending on the Brother device.

## 6 Uninstalling BRPrint Auditor: Standard method

You can uninstall the software using the **Add or Remove Programs** wizard found in **Windows® Control Panel**.



**Image 18 - Add or Remove Programs Icon in Control Panel**

## 7 Uninstalling BRPrint Auditor: Silent method

In some instances it will be necessary to uninstall the software silently. In other words, no messages are displayed on the PC screen as the software is removed.

To silently uninstall the software use the **(-h)** switch with the Brother **uninstall.exe** program. Like the silent method for installing the software, these switch must also be entered using Windows® command prompt.

For example:

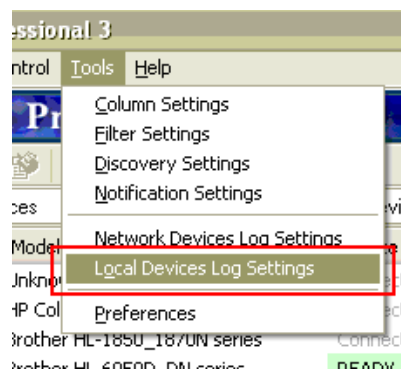
e.g. `C:\Program Files\Brother\BRPrintAuditor\uninstall.exe -h`

This will silently uninstall the software (the user will not be asked any questions). Please note that if you have installed the software silently, it is impossible to remove it using the Add or Remove Programs Wizard.

## 8 Using BRAdmin with BRPrint Auditor

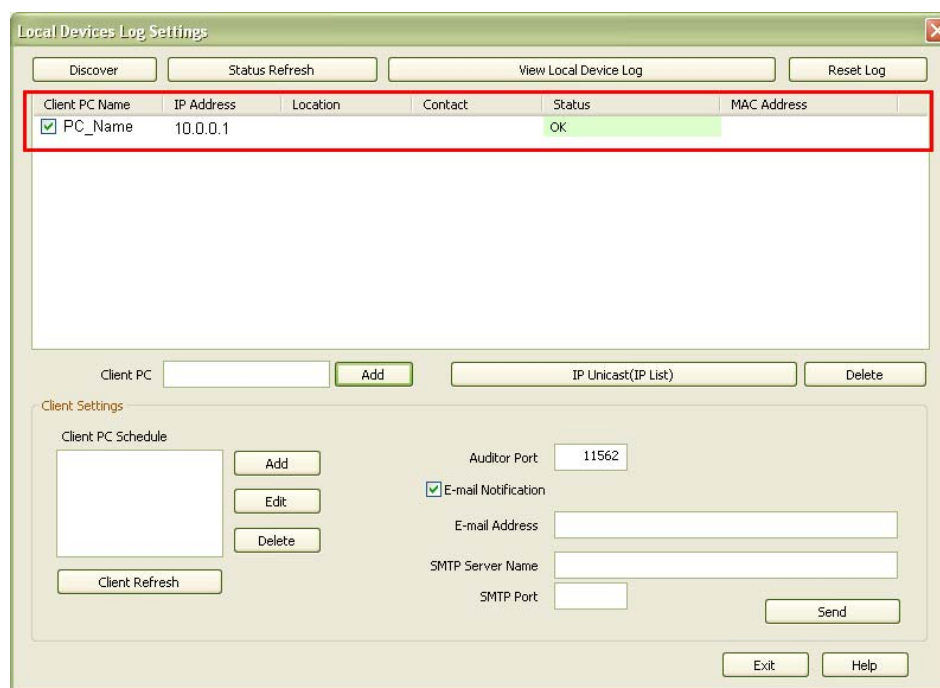
### 8.1 Discovering the BRPrint Auditor Agent PCs

From the main BRAdmin Professional 3 window, click **Tools** from the toolbar then select **Local Devices Log Settings**.



**Image 19 - Local devices log settings toolbar**

The local device log settings screen will be displayed (as shown below).



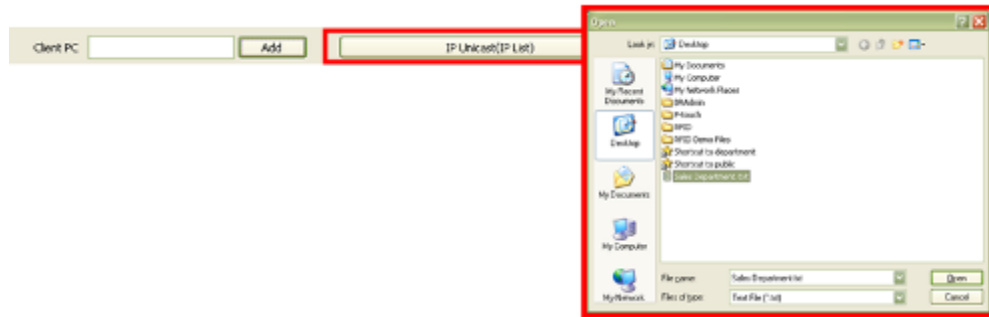
**Image 20 - Local device log settings main window**

The local device settings log is the section within BRAdmin that is used to communicate with BRPrint Auditor. To start this communication, enter the IP address, or node name, of the PC you have just installed BRPrint Auditor onto and then click **Add**.



**Image 21 - Searching for a client PC**

If you have BRPrint Auditor installed on many computers and want to search for them all at the same time, you can use the IP unicast function. To send an IP unicast simply open a text editor, like Windows® Notepad and type in the IP addresses, or node names, of each client PC you want to find and save it. Please make sure you only put one IP address, or one node name, per line. When you have done this, press the **IP Unicast (IP List)** button, select the text file you have just created and click **Open**. If found, your specified client PCs should now be listed



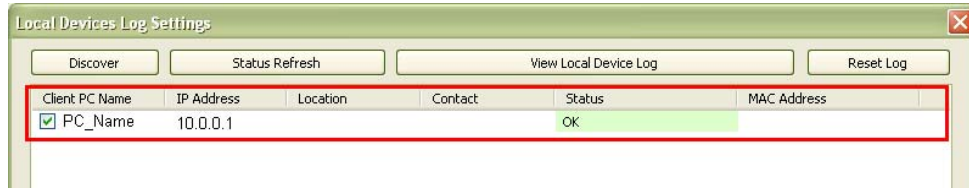
**Image 22 - IP Unicast (IP List) option**

Alternatively, you can press the **Discover** button which will search for PCs which are online and within the same LAN as BRAdmin. If your PC cannot be found, try adding it manually (as shown image 83 at the top of this page). Please note that if you are running any security software, such as a firewall or virus checker, you may have to configure it to allow BRAdmin on the specified port number, otherwise it may not function.



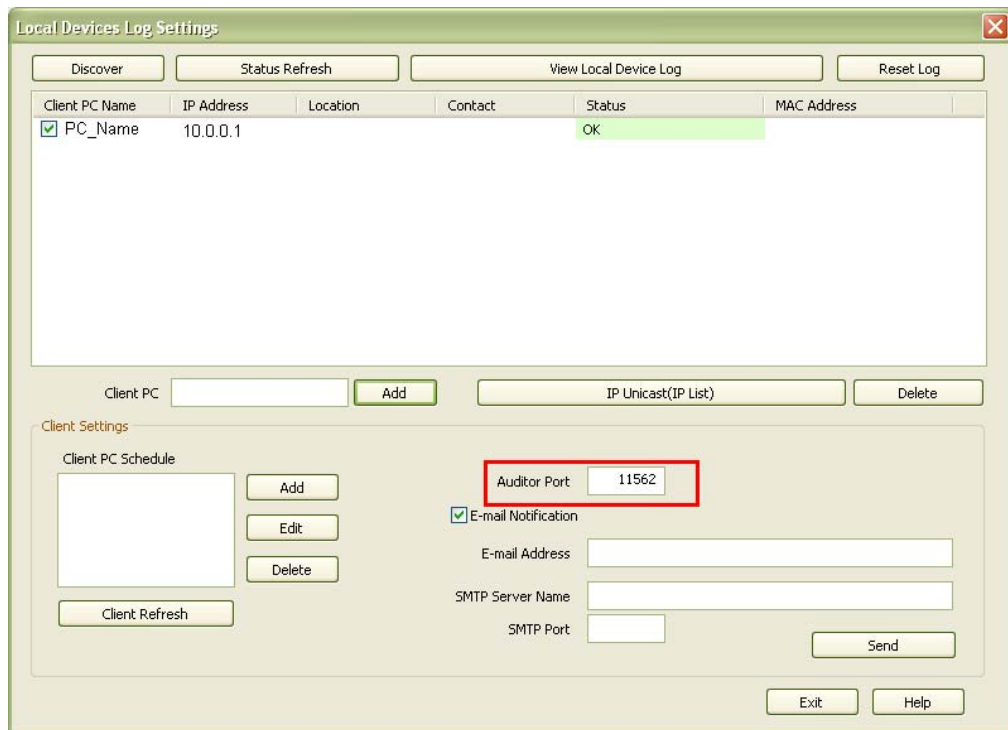
**Image 23 - Discovering local devices**

After a few moments, BRAdmin should start communicating with BRPrint Auditor and show information about the PC in which it is installed on.



**Image 24 - Client PC shown in BRAdmin Professional 3 local device log settings**

If you cannot find the PC, please check that you have the same port number configured on both BRAdmin and BRPrint Auditor. Also check the physical connections to ensure that everything is OK.

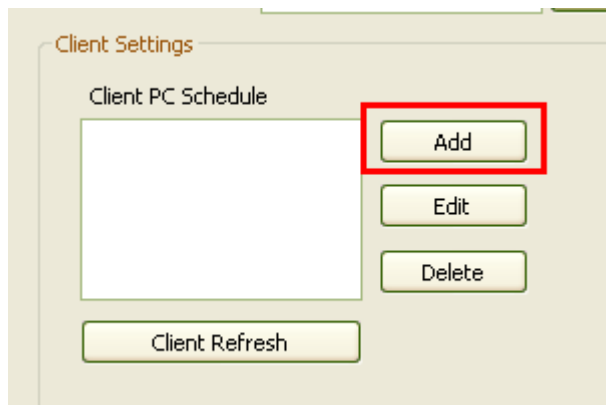


**Image 25 - Port Number**

## 8.2 Setting the communication schedule

You must now configure a schedule for communications between BRAdmin and the PC running BRPrint Auditor. Please note that the **Client PC Schedule** is based on the Client PC time and nothing else.

To configure a schedule click the **Add** button in the **Client PC Schedule** area.

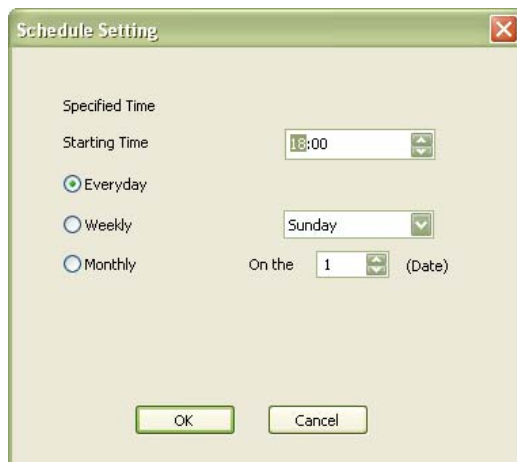


**Image 26 - Client PC Schedule**

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Use the **Add**, **Edit** and **Delete** keys to set the appropriate schedule.

In the example below, BRPrint Auditor will communicate with the locally connected Brother device **every day at 18:00**.



**Image 27 - Configuring a client PC schedule**

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### 8.3 Testing BRPrint Auditor is communicating with BRAdmin

If you wish to test the connection between BRAdmin and BRPrint Auditor, click the **View Local Device Log** button. This will force BRAdmin to retrieve the device information from the remote PC's that are running BRPrint Auditor.



**Image 28 - View Local Device Log button**

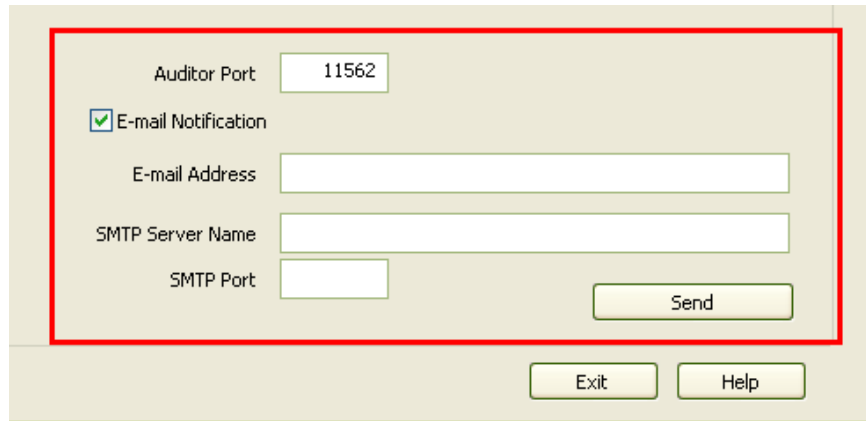
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Please note that if no information is displayed it is probably because there is a communication issue between BRAdmin and BRAuditor or BRAuditor and the locally connected device. If after a few repeat attempts you still do not get any information then troubleshoot the physical connections and configuration settings.

Also note that log information is retrieved using PJI commands. This means that the level of information sent may not be as comprehensive on every Brother machine. However, this is continually being improved.

## 8.4 E-mailing the log information using BRPrint Auditor

BRPrint Auditor can send its log information to a nominated e-mail address. To do this, put a tick in the box where it says **E-mail Notifications** and then specify the SMTP server IP address and port number along with the e-mail address of the person you wish to nominate.



The screenshot shows a configuration window with a red border. It contains the following fields and controls:

- Auditor Port: 11562
- E-mail Notification
- E-mail Address: [Empty text box]
- SMTP Server Name: [Empty text box]
- SMTP Port: [Empty text box]
- Send button
- Exit button
- Help button

**Image 29 - E-mail reports**

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By enabling the **Send Log Report Mail** option you will start to receive e-mails for network connected and locally connected machines. Each e-mail contains an attachment in the requested format (XML or CSV). In the image below it is on CSV format.



	From	Subject	Size	Received
✉	Admin@BRAdmin.co.uk	[BRAdmin] Network Devices List (CSV Format)	25 KB	Wed 24/10/2007 19:57
✉	Admin@BRAdmin.co.uk	[BRAdmin] Local Devices Report (CSV Format)	5 KB	Wed 24/10/2007 19:57

**Image 30 - E-mail received**

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