



Sentinel Installation Guide



September 2007

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System Installation

Requirements and Preparations

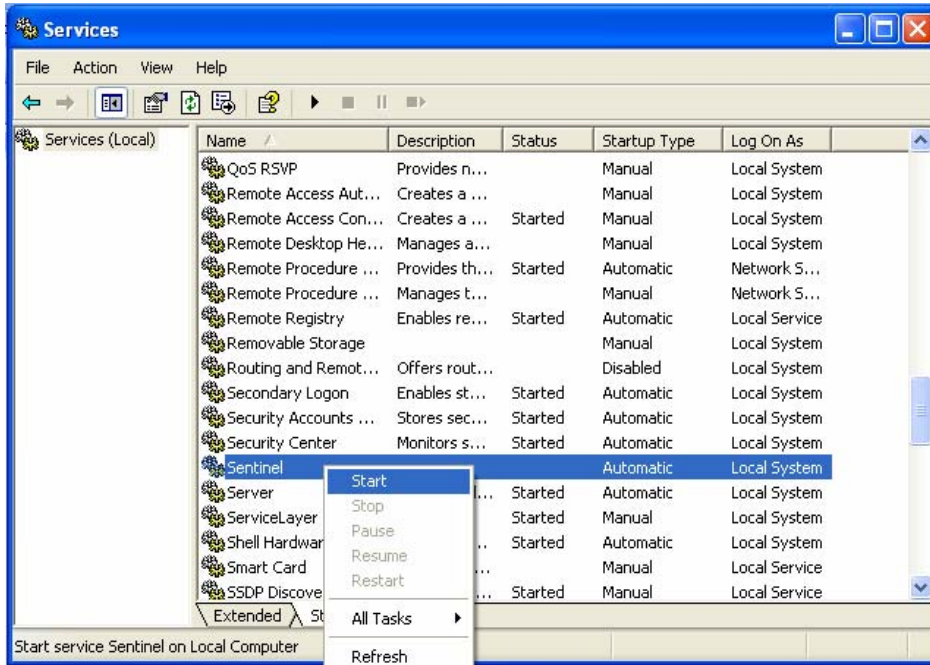
The sentinel system is composed of physical device controllers and a software server. The software server is based on the IIS web server, and as such, it will only run on computers able to run IIS. The most recommended operating system is Microsoft Windows Server 2003, but for small organizations it is also possible to run it under Windows XP Professional.

1. Install IIS (Internet Information Services) on the server system. For more information check Microsoft web-site (<http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/iiiisin2.msp?mfr=true>)
2. Install Dot.Net framework 2.0 (<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856EACB-4362-4B0D-8EDD-AAB15C5E04F5&displaylang=en>)

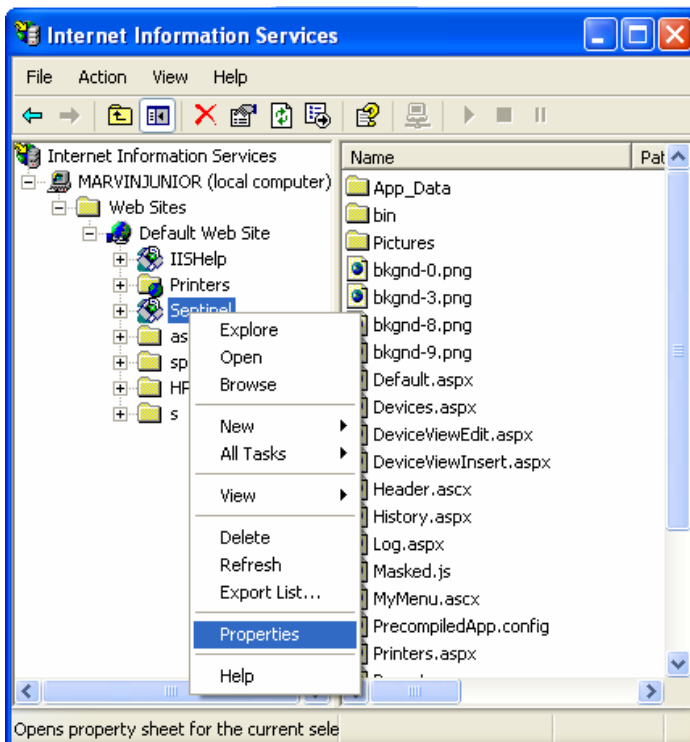
Installing the software

3. Run SETUP.EXE from the Sentinel installation directory and follow the directions on screen. It is preferred that you'll keep the default directories during the installation process.

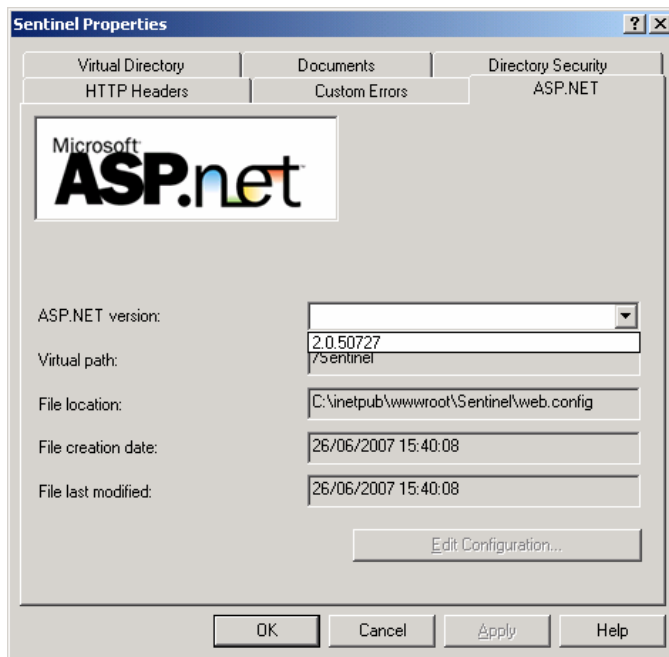
- Go to "Services" (Start → Settings → Control Panel → Administrative Tools → Services), Start the Sentinel service by right clicking "Sentinel" and choose the "Start" option.



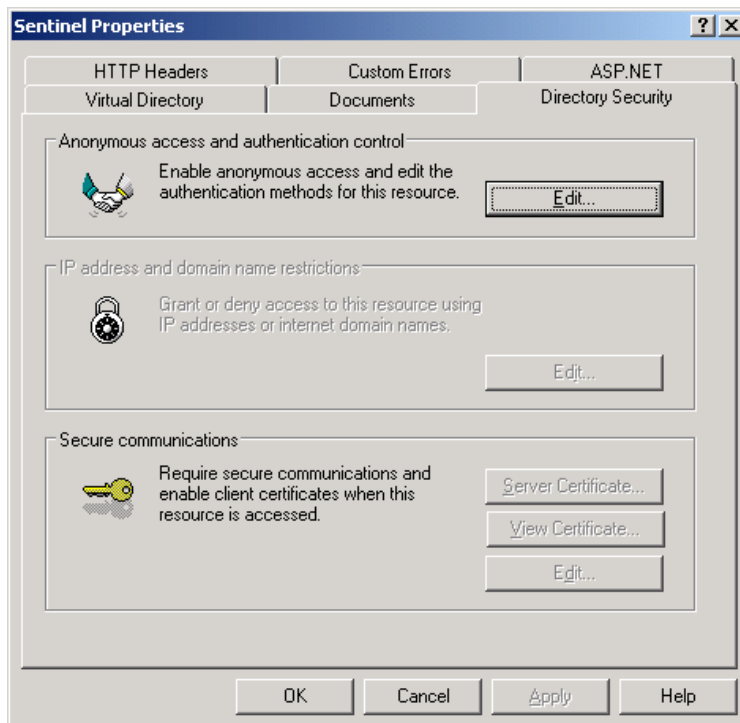
- Go to IIS Settings (Start → Settings → Control Panel → Administrative Tools → Internet Information Services). Expand "Local Computer\Web Sites\Default Web Site". Right click "Sentinel" and choose Properties".



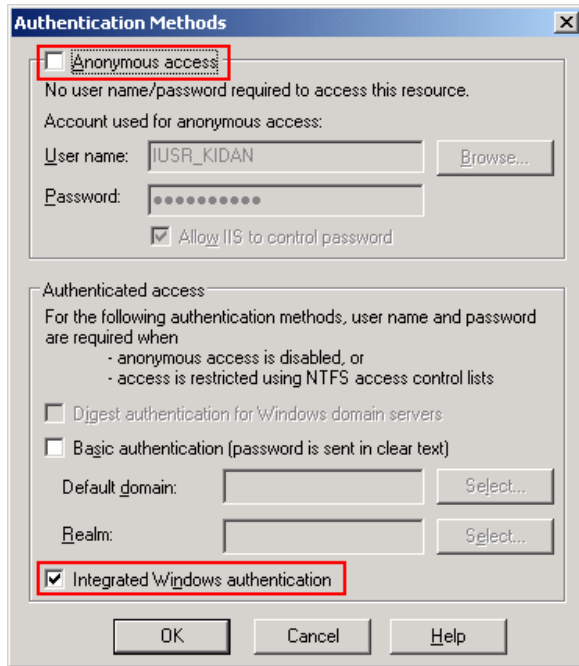
6. Go to "ASP.NET" tab and make sure that the ASP.Net Version is 2.X



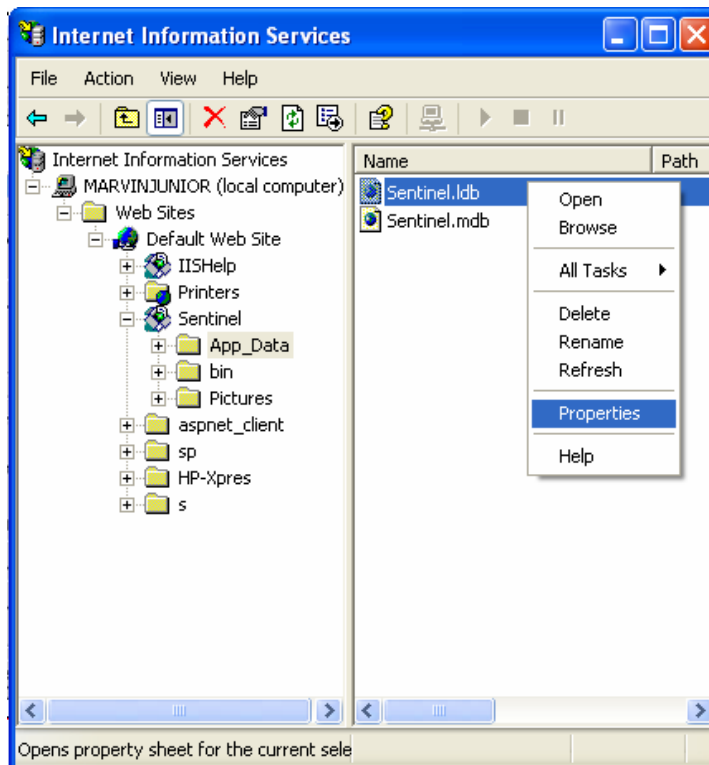
7. Go to the "Directory Security" tab and click the <Edit> button.



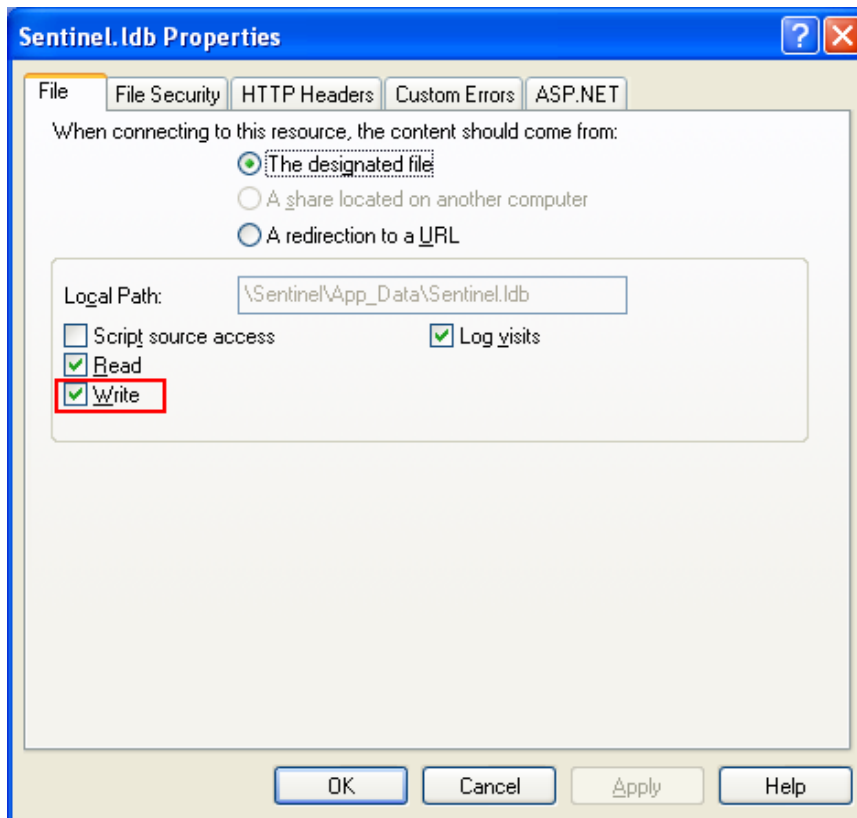
8. Uncheck the "Anonymous access" check-box and check "Integrated Windows Authentication". Click <OK>



9. Expand the "Sentinel" branch, click on "App_Data". Right click "Sentinel.mdb" and select "Properties".

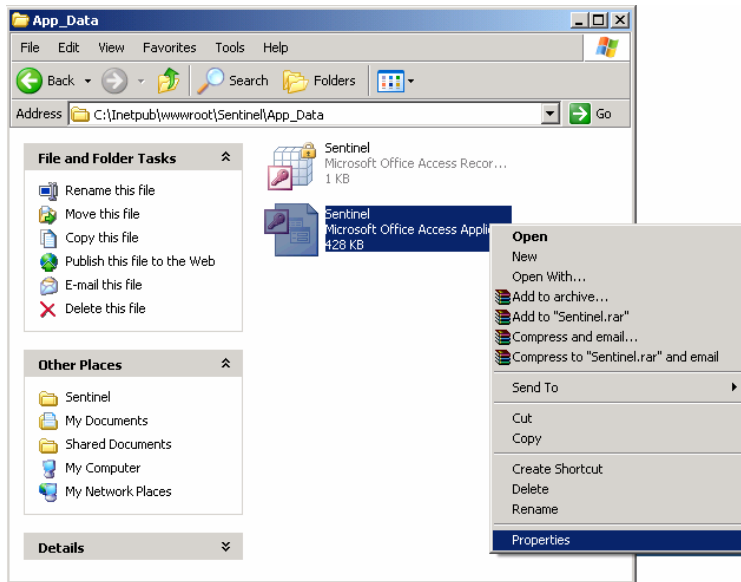


10. On the "File" tab check the "Write" checkbox.

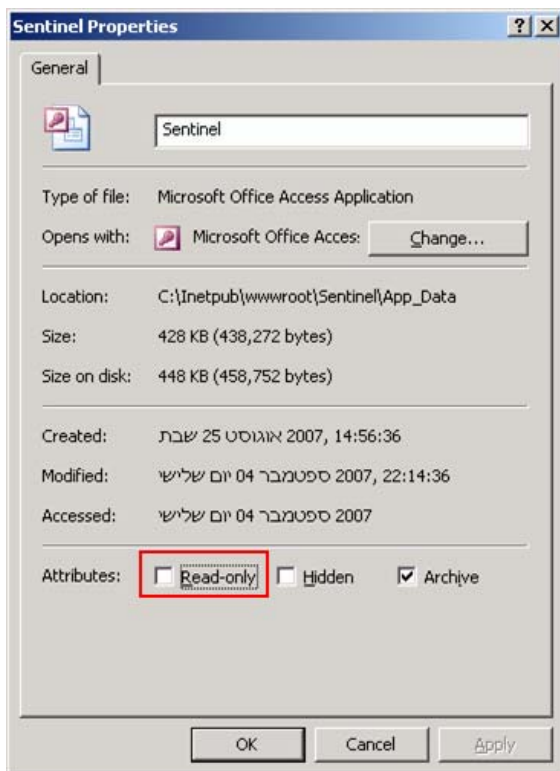


11. Repeat this process with the file "Sentinel.ldb" as well. If the file "Sentinel.ldb" doesn't exist, start the "Web Sentinel" by selecting (Start → Programs → Sentinel → Web Sentinel). Ignore the errors (if any such appear) and close the browser window. The "Sentinel.ldb" file should appear now.

12. Go to the IIS Sentinel folder (default directory is "C:\Inetpub\wwwroot\Sentinel\") and enter the "App_Data" folder. Right click "Sentinel.mdb" file and choose "Properties".

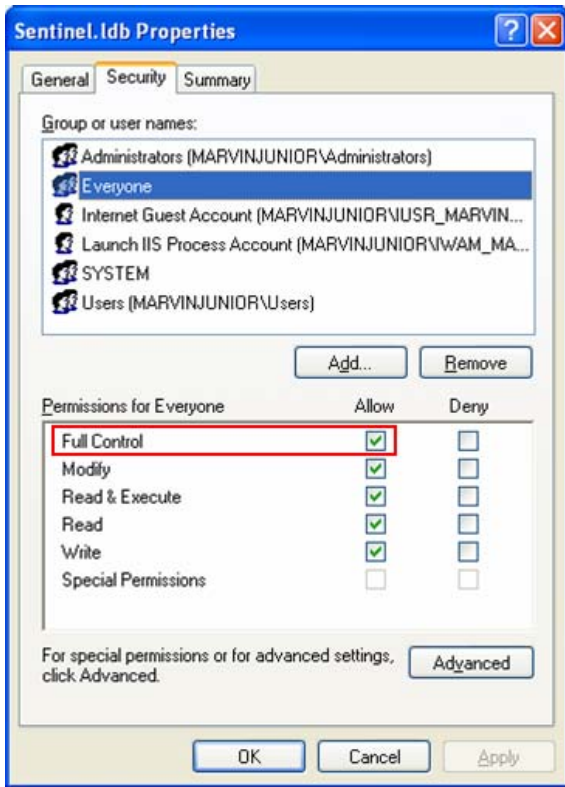


Make sure that the "Read-Only" checkbox is unchecked.



Go to the "Security" tab (if exists in your windows), Click on "Everyone" and

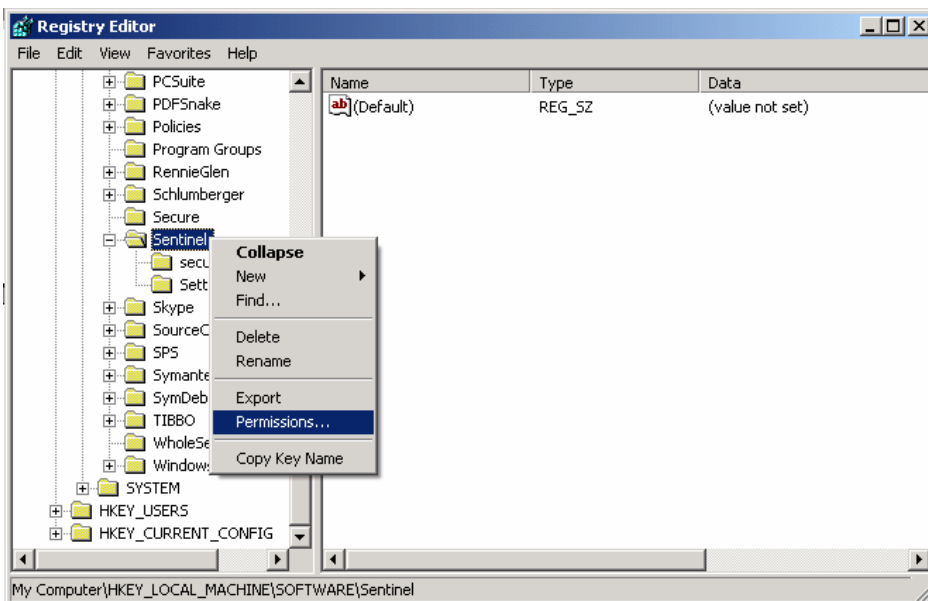
select "Full Control" from the list below



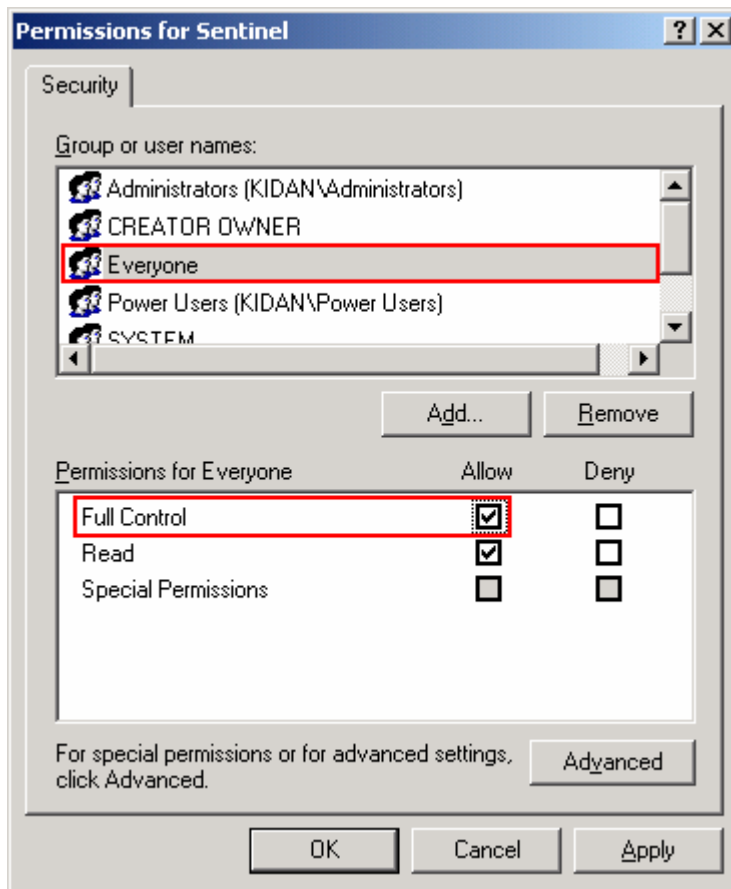
13.Repeat the process for the file "Sentinel.ldb" as well.

14.Start the Registry Editor (by clicking Start → Run, and typing the command REGEDIT). Go to following registry key:

HKEY_LOCAL_MACHINE\SOFTWARE\Sentinel
right click it and select "Permissions..."



Allow all users (Everyone) Full Control over this registry key.

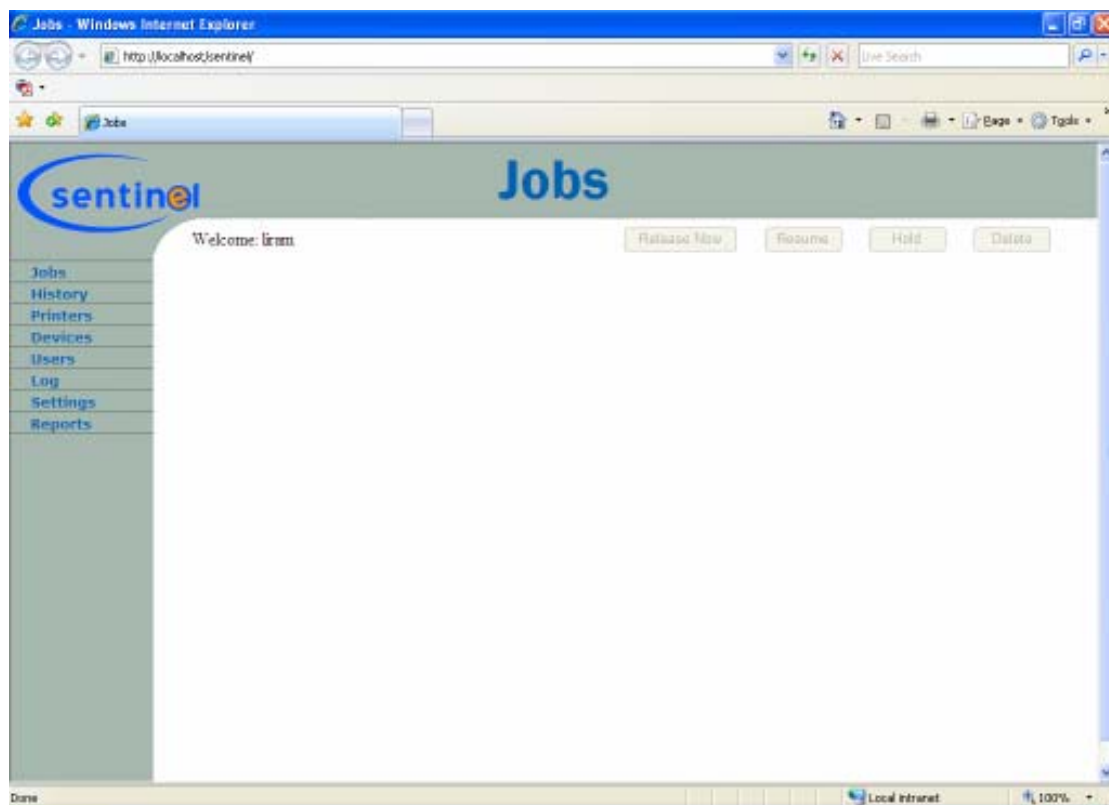


Checking the installation

It is now time to check the server installation.

Click "Start → Programs → Sentinel → Web Sentinel", or go to <http://localhost/Sentinel> in your web browser.

After a short time you should see a web page similar to the one below.

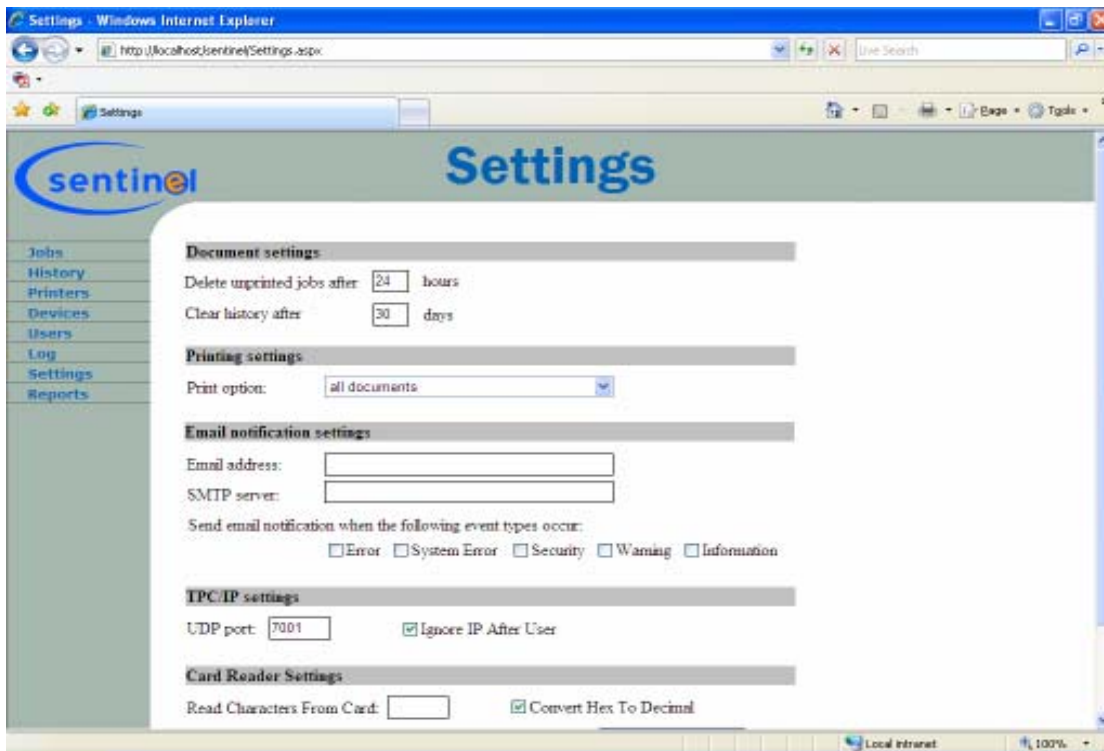


Congratulations! Sentinel is up and running!

Configuring Sentinel Server

To configure the system you should log-in to the Sentinel site. Click "Start → Programs → Sentinel → Web Sentinel", or go to <http://localhost/Sentinel> in your web browser. Please note that in order to be able to configure the sentinel server, you must log-in while you are signed-on as a local administrator of the computer in which sentinel is installed in.

After you have logged-in to the system, select "Settings" from the left menu panel. If the left menu panel only shows the "Jobs" and "History" options, it means the system didn't identify you as an administrator.



In the Settings screen, set the following options:

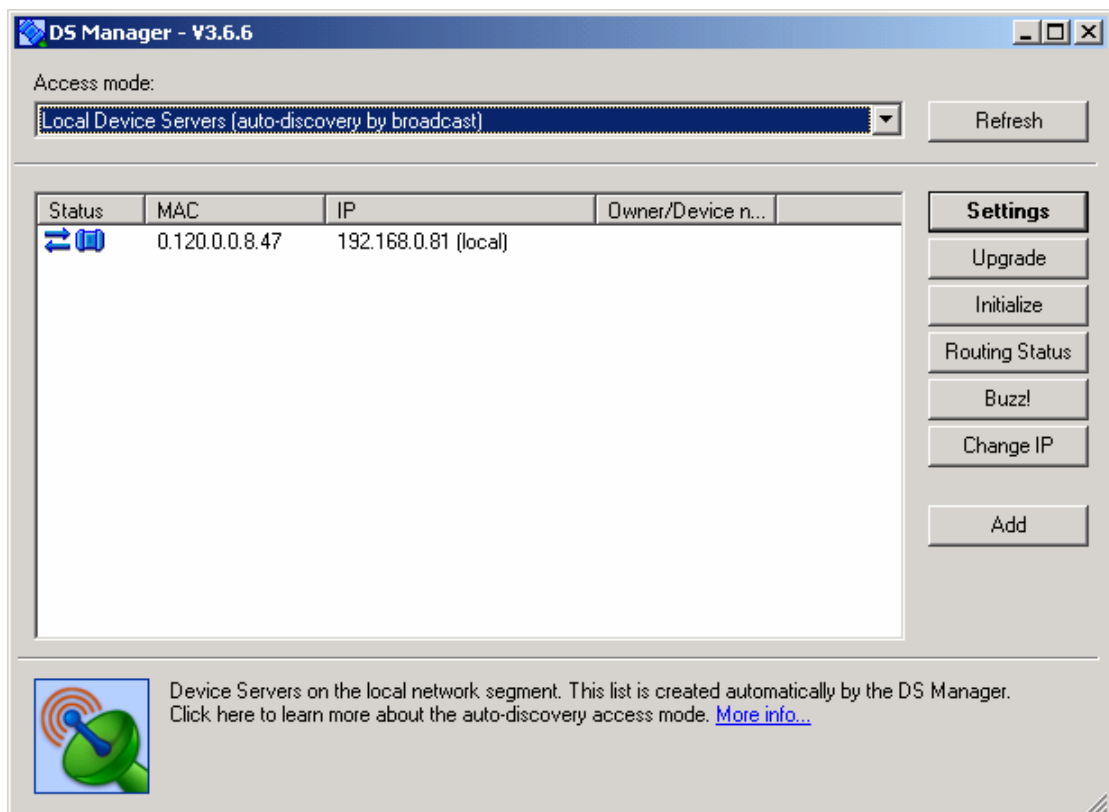
- Delete unprinted jobs after [X] hours: In here you can specify how much time Sentinel will keep a print job in its queue in case a print was made by a user but never released using the device.

- Clear history after [X] days: In here you can specify the time Sentinel should keep the print jobs on the "History" screen.
- Print Option: If several print jobs are waiting for the user, you can select if you want the user to get all of his jobs at once ("all documents") or should he pass his card for each job separately ("last job").
- Email Settings: This place allows you to set different mail settings (server, address and report types) for real time monitoring of different aspects.
- TCP/IP Settings: These settings allow you to change the working communication port of the system and LPR printing setting. Please note that changing these settings can prevent the system from functioning properly.
- Card Reader Settings: Sentinel can work with different cards/readers/clients. Each unit should be configured properly. It is not recommended to change these settings as it may prevent Sentinel devices from working properly.
- License Code Settings: This area contains your current license for Sentinel.

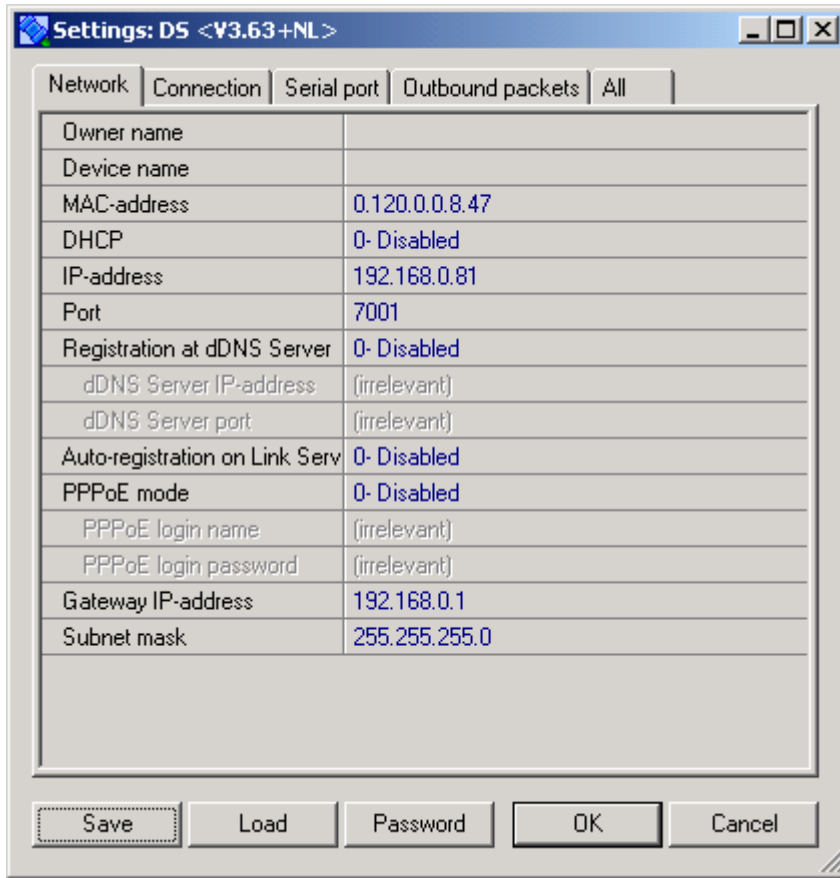
Adding a new device to the system

Before using a new device, it must be configured properly.

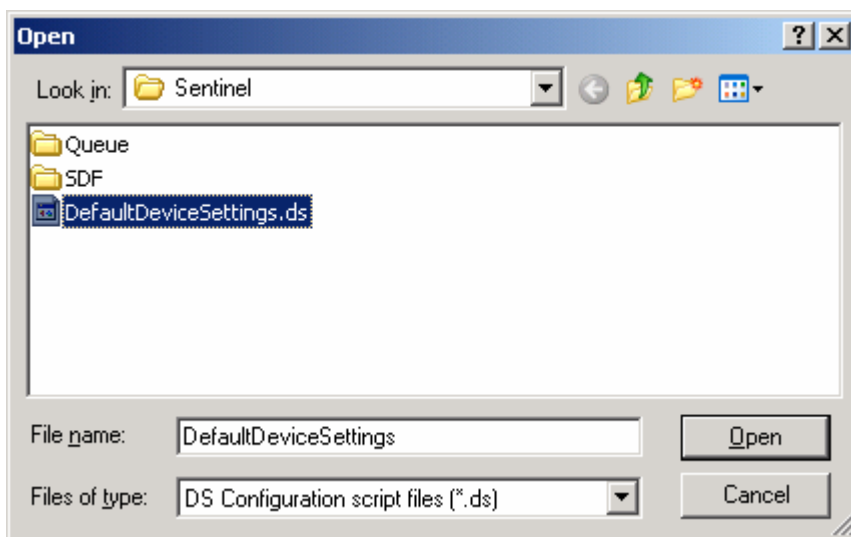
1. Attach the new device to the network.
2. Click "Start → Programs → Sentinel → DS Manager"
3. The D.S. Manager program will run and start looking for new devices.



- From the device list, select the device you want to configure, and double click it, the device's settings window will appear:



- Click the <Load> button and select the predefined settings file from the Sentinel path. This will load all the standard settings for the device



- now you need to set up the specific definitions which will match your network environment and your sentinel system, these settings include:

IP-address

Gateway IP-address

Subnet Mask

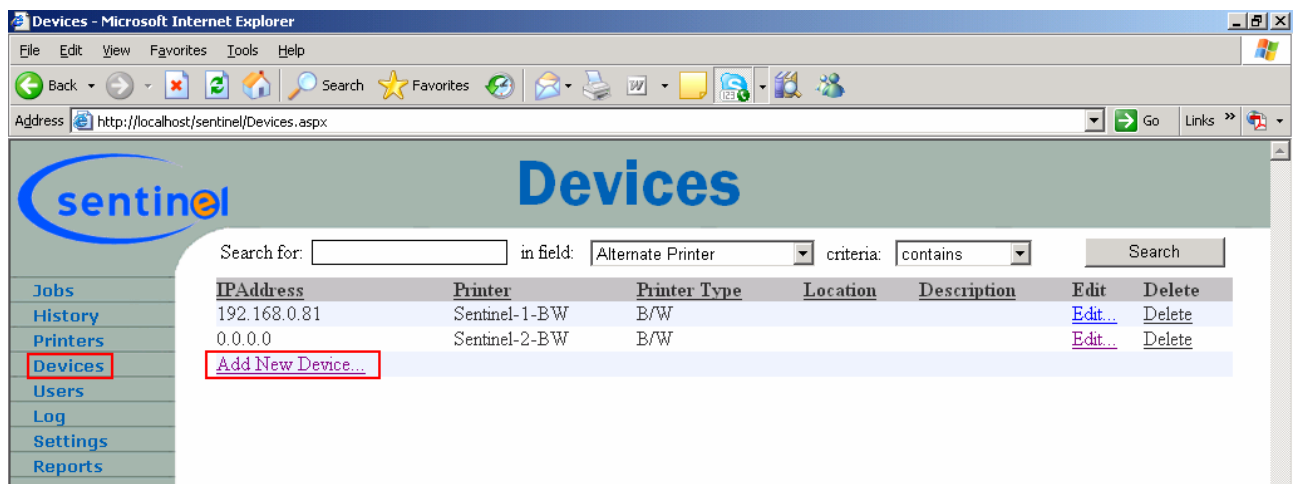
Destination IP-address

After configuring the device itself we must configure Sentinel to use it.

After logging to the system (click "Start → Programs → Sentinel → Web Sentinel", or go to <http://localhost/Sentinel> in your web browser) click "Devices" on the left menu.

On the screen you should see all the devices currently configured. Pressing "Edit..." will let you edit the settings for the selected device.

To add a new device, click on "Add New Device" at the bottom of the table.

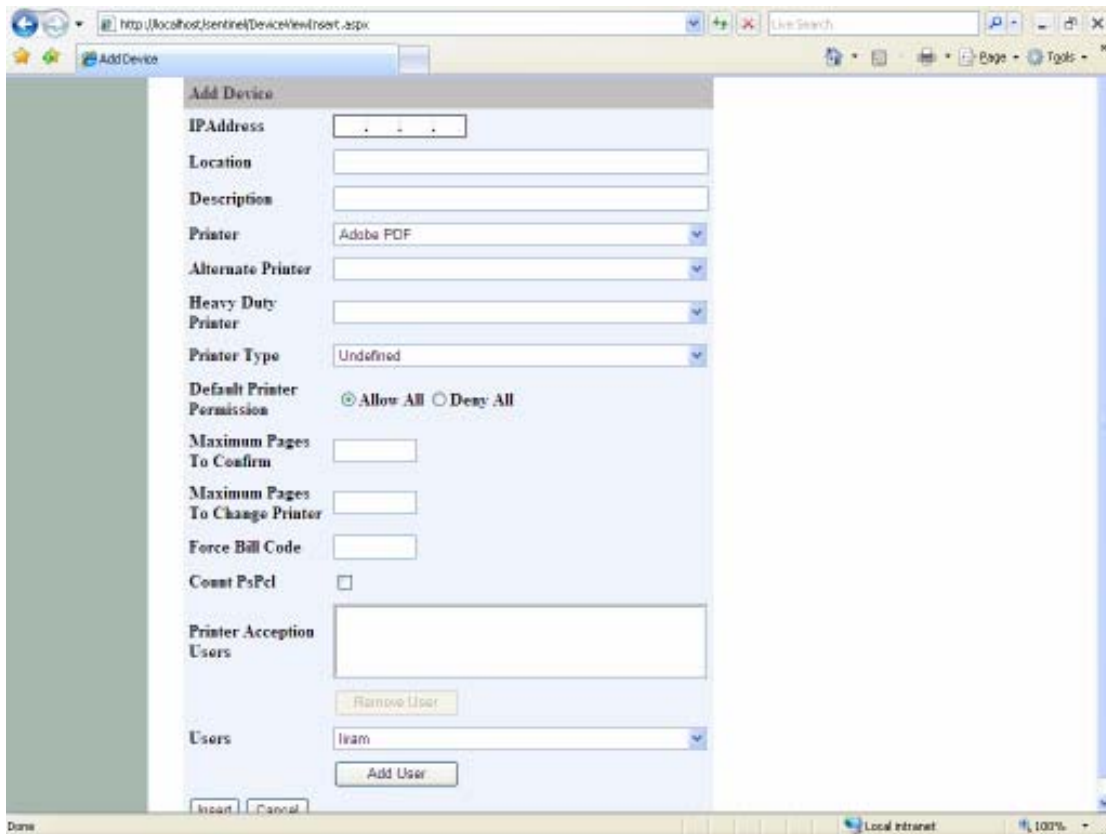


The screenshot shows the Sentinel web interface in Microsoft Internet Explorer. The browser address bar shows <http://localhost/sentinel/Devices.aspx>. The page title is "Devices". On the left, there is a navigation menu with links for Jobs, History, Printers, Devices (highlighted), Users, Log, Settings, and Reports. The main content area features a search bar with the text "Search for:" and a dropdown menu for "in field:" set to "Alternate Printer". Below the search bar is a table with the following data:

IPAddress	Printer	Printer Type	Location	Description	Edit	Delete
192.168.0.81	Sentinel-1-BW	B/W			Edit...	Delete
0.0.0.0	Sentinel-2-BW	B/W			Edit...	Delete

At the bottom of the table, there is a link labeled "Add New Device..." which is highlighted with a red box.

After clicking the link you will get the "Add Device" form.



- IP Address: Enter the IP Address of the new device.
- Location: In here you can describe the device location.
- Description: In here you can enter the device description.
- Printer: Here you get to choose which printer is attached to the device.
- Alternate Printer: Select an alternate printer to print the jobs if the main printer is failing.
- Heavy Duty Printer: If the "Maximum Pages to Change Printer" is lower than the number of pages in the current job, the job will be printed on this heavy duty printer.
- Printer Type: Select the type of the printer (Black and White / Color / Cheques/ Labels or undefined)

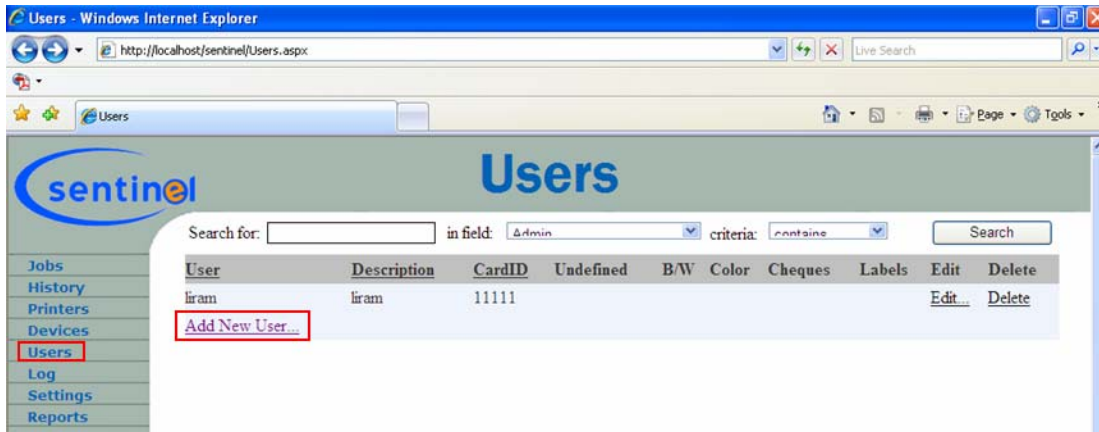
- **Default Printer Permission:** Select whatever Sentinel should allow prints from everyone (with exceptions) or should deny all prints (with exceptions)
- **Maximum Pages to confirm:** This is used only for virtual devices (non physical devices which are defined as IP 0.0.0.0). Here you can choose the number of pages that will cause Sentinel popup to start and ask for a confirmation in the user's workstation before releasing the print job.
- **Maximum Pages to Change Printer:** Here you can choose the number of pages that will cause Sentinel to switch the printer to the Heavy Duty one.
- **Force Bill Code:** When using the pop-up client, this will define the number of pages that can be printed without entering a bill code.
- **Count PS/PCL:** This setting defines the way Sentinel counts pages. You should leave this box unchecked unless a different count way is required by the system.
- **Printer Exception Users:** Whatever you choose "Allow all" or "Deny all" on "Default printer Permission", you can add the exceptions here. Select the user from the users list and press <Add User> in order to add a user. To remove a user, select it from the Exceptions list and click <Remove>.

When done, Click <Insert> to add the new device to the devices list.

Adding New Users

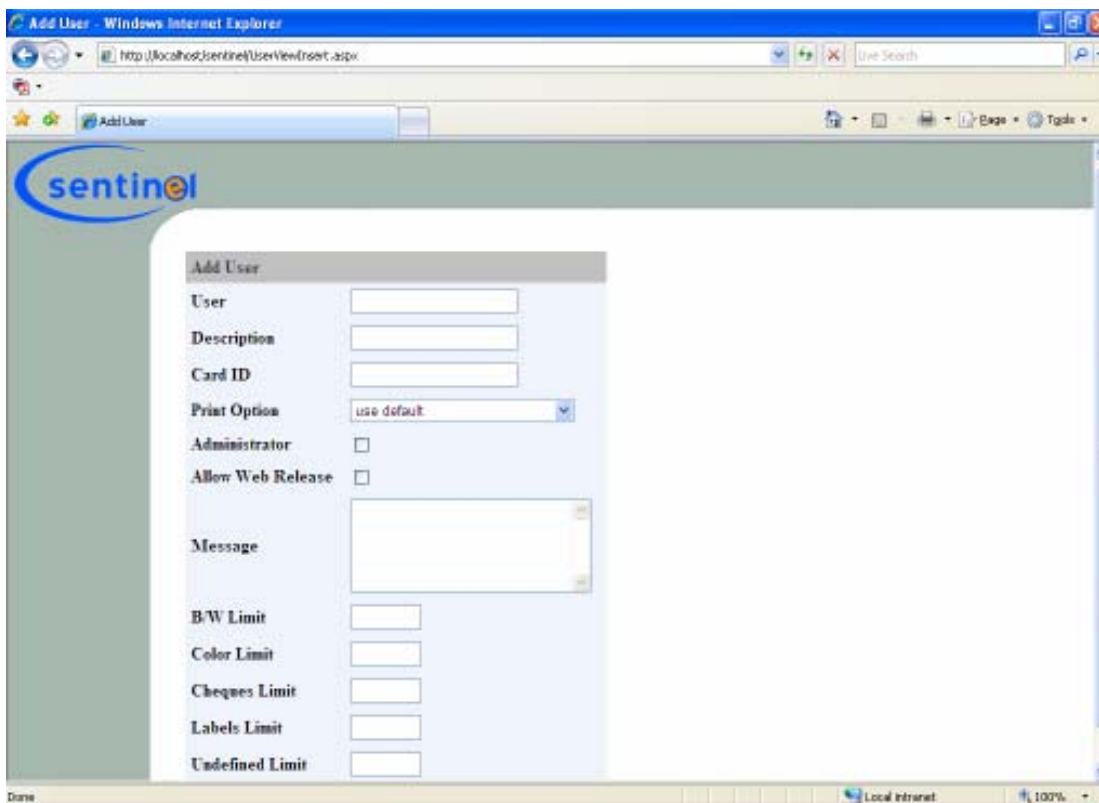
Before a user can print using Sentinel he must be added to the system.

To add a user log on to the Sentinel web interface and click "Users" on the left menu.



On the screen you should see all the users currently configured on the system. To edit a user click the <Edit...> link. To add a new users click <Add New User...>

You should see the "Add User" form.



- User: Enter the name of the user. When using the pop-up client, this name must be the same as the user name on the Windows system.
- Description: Add here any description you want about the user.
- Card ID: Enter the card ID of the user.
- Print Options: This setting override the same settings as defined on the General Settings page. To keep the default settings, set it to "use default".
- Administrator: Checking this box will set the user as an administrator for the Sentinel system. An administrator can connect to the sentinel web interface from remote machines and get the administrator menu as shown above (non administrators will only see their print jobs).
- Allow Web Release: Checking this box will allow the user to log on the Sentinel server web interface and release his jobs without using the reader device.
- Message: A message that will be presented to the user while accessing the web interface.
- [X] Limit: These areas allow you to set a printing limit to different print types (B&W prints, color prints, etc'). Please note that setting the fields to 0 (zero) will disable all the prints for the current type. To set fields to "unlimited" leave it blank.

After configuring the user press <Add> to apply the settings.

Logging and Errors

The log is where you can see all events, errors and warnings occur in the system. To get to it, simply click "Log" on the left menu.

