



Power Auditor – Achieved Savings

Product Training 2018



Power Auditor – Achieved Savings

Once the baseline of data has been collected, we can move into Achieved Savings mode. Using Management Utilities along with SyAM System Client and SyAM System Area Manager, we apply Power Management settings to the systems so they will be powered off at a desired time for each day of the week.

Achieved Savings is calculated by comparing the actual powered on hours with the baseline of data that was collected during the Identified Savings period, before power management was implemented. The result is a report of what has actually been saved by enforcing power management policies.

Example

Baseline recorded systems being powered on 80 hours a week, now with the Power Setting applied to the client the amount of hours on is 50, so Achieved Savings = 30 hours



Moving into Achieved Savings

The Achieved Savings tab allows you to compare powered on hours before and after implementing your power policy. After seven days of auditing, sufficient data has been collected to establish a baseline, and at that time Achieved Savings mode is enabled.

When moving into Achieved Savings mode you will need to enter the IP address or hostname of the system(s) which are running the System Area Manager software. This will retrieve the number of licenses purchased and will allow the number of systems up to the license count to continue being monitored. Systems over the license count will not have their power audit data collected.

Settings | Users | Email Settings | **Achieved Savings**

Achieved Savings mode allows you to compare actual powered on and off times for devices in your network. A baseline set of data is captured and used to compare per-device usage before and after implementing a power schedule.

Once the Power Auditor has collected 7 days worth of data, you may move into Achieved Savings mode. This will allow you to compare how many hours devices were powered on before and after implementing your energy saving solution.

Warning: You should NOT implement power schedules while in identified savings. Identified savings mode is used to collect an average baseline of number of hours on for devices in your network before beginning your savings plan. [Implementing power schedules while in identified savings mode will greatly reduce your achieved savings.](#)

Your per-system baseline averages would be the following if you were to move into achieved savings today:

Device Type	Power Template	Average Hours On Per Week
Unknown	8AM On, 5PM Off	135
Unknown	Library	101
Desktop	8AM On, 5PM Off	110
Desktop	Library	130
Server	8AM On, 5PM Off	132
Server	Library	137
Server	Servers 24/7	161
Notebook	8AM On, 5PM Off	0
Notebook	Library	26
Desktop	Servers 24/7	45
Notebook	Servers 24/7	26

Area Manager IP Address

Area Manager IP Address	License Count	
192.168.200.113	110	<input type="button" value="Remove"/>
192.168.200.10	130	<input type="button" value="Remove"/>
HP-Vpro	0	<input type="button" value="Remove"/>
192.168.200.81	5	<input type="button" value="Remove"/>

The button below will become active once you have reviewed an identified savings report for the last seven days. It is strongly recommended that you closely examine the table above and the contents of the report to verify that your audit represents the usage in an average week for your environment.

[Run Report Now](#)



Configuring the Power Schedule

- Once a Client has been deployed to the Target systems you must apply a Power Schedule to it so the Client can start intelligently powering off the system at your designated time
- The Power Schedule can be applied to a single system, groups or included in the Unattended Wizard Job

Power Settings Options

- Windows Power Plan settings
- Shutdown Schedule
- Advanced Settings
- Check for Activity Timer
 - The period of time from the last keyboard or mouse activity before the shutdown process begin.
- Shutdown Countdown Timer
 - This is the time period that the user is presented to cancel the scheduled shutdown.
- Wait Period before Rechecking
 - This is the time period that the agent will wait before attempting to perform the scheduled shutdown.
- Number of Attempts to Shutdown
 - This is the number of attempts the agent will attempt to perform the scheduled shutdown for that day.
- Application
 - You can enter the name of an application if found to be running it will not perform the scheduled shutdown.
- System Security
 - This feature is used to secure a system against unauthorized access when the user is not present. Use the drop down menu to enable the feature and select the inactivity timeout period. Then choose either to force a logoff of the currently logged-in user, or lock the screen, requiring the user to re-enter a password

Power Settings Template

Define power on / off schedules for systems in your network.

Template Name:

Timeout Settings for AC Main

Turn off monitor:

Turn off hard disks:

System standby:

Hibernate:

Hybrid Sleep (Windows 7 / 8 only):

Power Management Scheduler Settings

Schedule	No Action	Shutdown	Restart	Hibernate	Execute Time
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Apply To All <input type="text" value="00:00"/>
Monday	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value="17:00"/>
Tuesday	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value="17:00"/>
Wednesday	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value="17:00"/>
Thursday	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value="17:00"/>
Friday	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="text" value="23:00"/>
Saturday	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text" value="00:45"/>

Power On Weekdays Settings
This setting is only applicable to Macintosh systems running OSX 10.4.x and above

Weekdays No Action Power On

Advanced Power Management (requires V4 client or above)

Check for Activity Timer

Shutdown Countdown Timer

Wait Period before rechecking

Number of attempts to shutdown

Application

Excel.exe

Remove Application

Enter application executable name:

Add Application

System Security - User Log Off / Lock Screen Settings

If a defined application is running the screen will be locked. Check for User Inactivity

Force Log Off Lock Screen

Save Changes Cancel



Power Management Status

- Letting the User Know the Power Plan
- Power Template Name becomes Windows Power Plan Name
- Management Utility informs the IT Administrator
- Power Template Set shows Schedule implemented along with Power Plan name

Select a power plan

Power plans can help you maximize your computer's performance or conserve energy. Make a plan active by selecting it, or choose a plan and customize it by changing its power settings. [Tell me more about power plans](#).

Preferred plans

Shutdown 5pm Daily - Update Friday [Change plan settings](#)

Policy created by smagent.

Client	Type	Mgd	Area Ma...	Power	Power Template Set	Location
V4.81.20...	Server	Yes	192.168....	On	Not Set, Balanced	*Technology
V4.81.10...	Desktop	Yes	192.168....	On	Not Set, Balanced	Central Office
V4.80.11...	Desktop	Yes	192.168....	On	Set - Partial, Off Daily 530pm except Thur 430 reboot ...	Central Office
V4.81.10...	Desktop	Yes	192.168....	On	Not Set, Balanced	*Technology
V4.81.10...	Desktop	Yes	192.168....	On	Set - Partial, Shutdown 5pm Daily - Update Friday	Middle School
V4.81.10...	Desktop	Yes	192.168....	On	Not Set, Balanced	Middle School
V4.81.10...	Desktop	Yes	192.168....	On	Not Set, Balanced	Middle School



Groups and Subgroups

New groups and subgroups can be created, and systems can be moved from one group to another. For example, discovery of systems across an IP range may create a group with a mix of desktops and servers. Servers could be moved into a separate group, with a different Power On Hours template used for that group.

IP (1st)	Name
10.1.11.1	DEVICE11_1
10.1.11.2	DEVICE11_2
10.1.11.3	DEVICE11_3
10.1.11.4	DEVICE11_4
10.1.11.5	DEVICE11_5
10.1.11.6	DEVICE11_6
10.1.11.7	DEVICE11_7
10.1.11.8	DEVICE11_8
10.1.11.9	DEVICE11_9
10.1.11.10	DEVICE11_10
10.1.11.11	DEVICE11_11
10.1.11.12	DEVICE11_12

IP (1st)	Name	Total Hours On	Hours To Be Saved	kWh To Be Saved	Amount To Be Saved	MAC
10.1.11.1	DEVICE11_1	53.0	20.0	2.10	0.40	
10.1.11.2	DEVICE11_2	66.0	30.0	3.15	0.60	
10.1.11.3	DEVICE11_3	53.0	16.0	1.68	0.32	
10.1.11.4	DEVICE11_4	61.0	19.0	2.00	0.38	
10.1.11.5	DEVICE11_5	49.0	14.0	1.47	0.28	
10.1.11.6	DEVICE11_6	83.0	28.0	2.73	0.52	
10.1.11.7	DEVICE11_7	45.0	15.0	1.58	0.30	
10.1.11.8	DEVICE11_8	58.0	27.0	2.84	0.54	
10.1.11.9	DEVICE11_9	48.0	20.0	2.10	0.40	
10.1.11.10						42
10.1.11.11						16
10.1.11.12						24
10.1.11.13						30
10.1.11.14						24
10.1.11.15						24
Totals:						33

Select the group to which you would like to move the selected systems

- 100-194
- Development - East
- Development - Springfield
- Factory - Central
- Factory - East
- Finance
- IT Testing

OK Cancel



Viewing Systems Power Data

Systems within the group chosen will be displayed on screen. They can be sorted by clicking on the appropriate column heading.

Details

Identified Savings: Operations
3/15/2012 - 3/21/2012

Move Remove [?] Number of systems per page: 25 ▾

OU	IP (1st) ▲	Name	Total Hours On	Hours To Be Saved	kWh To Be Saved	Amount To Be Saved	MAC
	10.1.2.1	DEVICE2_1	76.0	41.0	4.31	0.82	
	10.1.2.2	DEVICE2_2	40.0	12.0	1.28	0.24	
	10.1.2.3	DEVICE2_3	31.0	5.0	0.53	0.10	
	10.1.2.4	DEVICE2_4	63.0	36.0	3.78	0.72	
	10.1.2.5	DEVICE2_5	65.0	36.0	3.78	0.72	
	10.1.2.6	DEVICE2_6	86.0	52.0	5.46	1.04	
	10.1.2.7	DEVICE2_7	43.0	14.0	1.47	0.28	
	10.1.2.8	DEVICE2_8	37.0	15.0	1.58	0.30	
	10.1.2.9	DEVICE2_9	52.0	24.0	2.52	0.48	
	10.1.2.10	DEVICE2_10	71.0	36.0	3.78	0.72	
	10.1.2.11	DEVICE2_11	47.0	16.0	1.68	0.32	
	10.1.2.12	DEVICE2_12	58.0	23.0	2.42	0.46	
	10.1.2.13	DEVICE2_13	48.0	14.0	1.47	0.28	
	10.1.2.14	DEVICE2_14	54.0	30.0	3.15	0.60	
	10.1.2.15	DEVICE2_15	33.0	4.0	0.42	0.08	
Totals:			804.0	358.0	37.59	7.14	



Changing Group Settings

Settings can also be changed within a group by highlighting a row (or rows) and using the right-click menu to change system classification, wattages, or the Power On Hours template.

Details

Identified Savings: Operations
3/15/2012 - 3/21/2012

Move Remove ? Number of systems per page: 25

OU	IP (1st)	Name	Total Hours On	Hours To Be Saved	kWh To Be Saved	Amount To Be Saved	MAC
	10.1.2.1	DEVICE2_1	76.0	41.0	4.31	0.82	
	10.1.2.2	DEVICE2_2	40.0	12.0	1.28	0.24	
	10.1.2.3	DEVICE2_3	31.0	5.0	0.53	0.10	
	10.1.2.4	DEVICE2_4	83.0	38.0	3.78	0.72	
	10.1.2.5	DEVICE2_5	85.0	38.0	3.78	0.72	
	10.1.2.6	DEVICE2_6	86.0	52.0	5.48	1.04	
	10.1.2.7	DEVICE2_7	43.0	14.0	1.47	0.28	
	10.1.2.8	DEVICE2_8	27.0	16.0	1.58	0.30	
	10.1.2.9				2.52	0.48	
	10.1.2.10				3.78	0.72	
	10.1.2.11				1.68	0.32	
	10.1.2.12				2.42	0.46	
	10.1.2.13				1.47	0.28	
	10.1.2.14	DEVICE2_14	54.0	30.0	3.15	0.60	
	10.1.2.15	DEVICE2_15	33.0	4.0	0.42	0.08	
Totals:			804.0	358.0	37.59	7.14	

Apply to Selected Machines
Apply to Group
Apply to Group & Subgroups
Change system(s) power audit settings

Change system classification: Desktop

Change system idle wattage: 80

Change monitor idle wattage: 25

Change power on hours template: Marketing

OK Cancel



Retiring Systems

- When systems are no longer being used on the network they should no longer be accounted in the Achieved Power Savings.
- To remove them from the calculation we retire them in the Power Auditor
- Run a detailed savings report for the last 60 days and use filter Powered on Hours <1 and run as html
- At the top of the report select Retire All Systems, enter the retirement date, this should be set to the end of the month
- Retired Systems will be highlighted black and no longer will contribute to the Achieved Savings number from the date of retirement