



**U.S. Department of Agriculture
Office of the Chief Information Officer**

Power Management and BigFix

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BigFix Mission

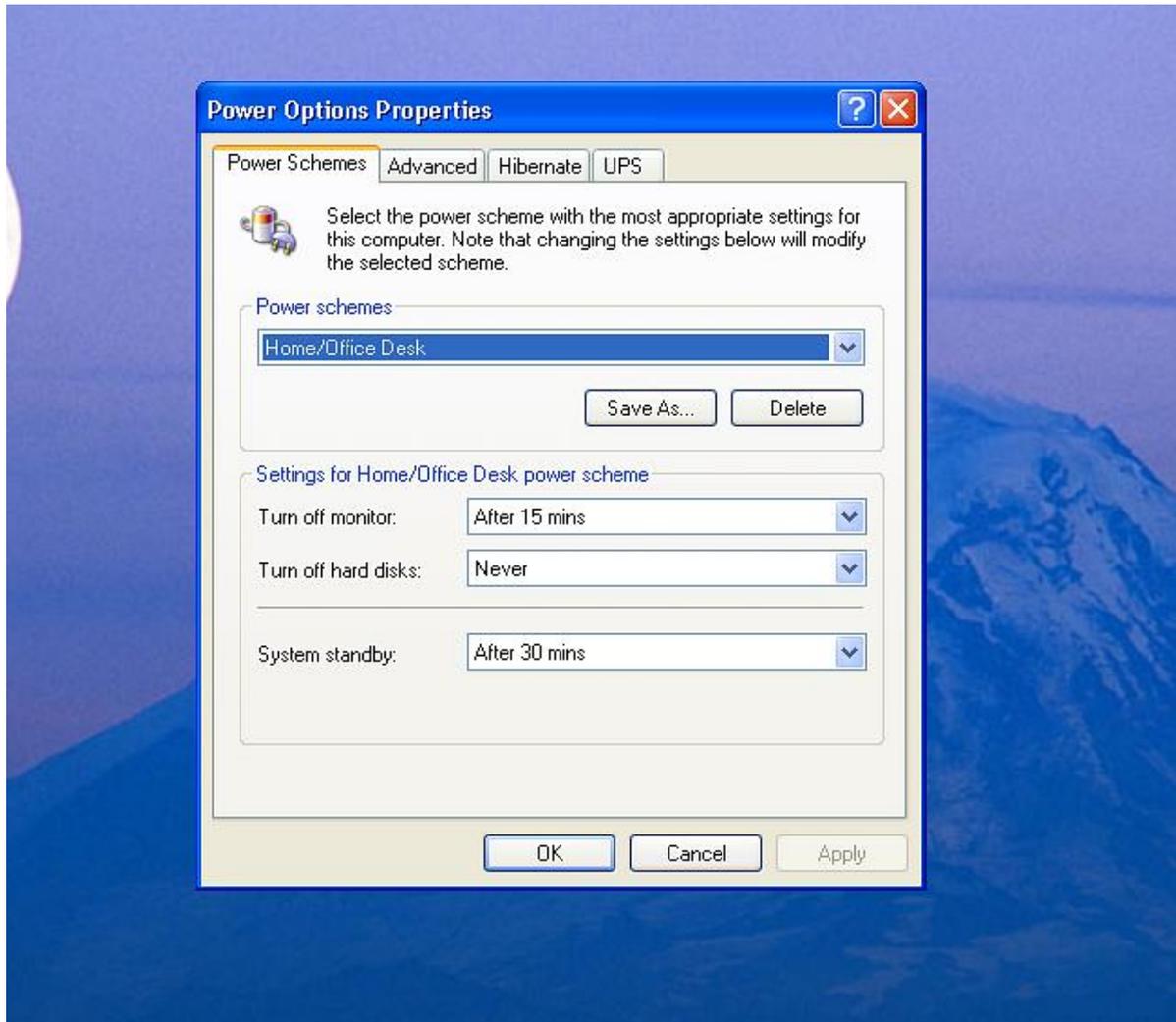
- Visibility Across the Enterprise
- Provide Unified End-to-End Security Compliance
- Improve business efficiency within asset and inventory management
- Provide consistent endpoint health checks
- **Further efforts for Green IT initiatives**



USDA BigFix Installation: Quick Facts

Endpoints	Approximately 132,000 endpoints covering every county in the U.S and U.S Territories.	
Core Architecture	<ul style="list-style-type: none"> • 2 Co-located Database Servers • 2 Co-located Application Servers • 3 Web Reporting Servers • 6 Top Level Relays • 3 Terminal Services Servers (Console Connection) 	
Relay Architecture	<ul style="list-style-type: none"> • Two-Tiered Approach • Two-Tiered Distributed Approach • Three-Tiered Approach 	
OS	<ul style="list-style-type: none"> • Windows • Macintosh • UNIX • Linux 	<ul style="list-style-type: none"> • AIX • Sun Solaris • HP-UX • VMWare
Functionality	All functionality is available for use.	
Machine Info	Installed on FDCC machines. Installed on machines with McAfee Endpoint Encryption.	

USDA Power Management Settings



Power Management Tracking

BigFix collects the following power management data from all workstations and servers with the agent installed:

- Powered-On Time per Day
- Total Powered-On Time
- Power Consumption (the baseline is configurable)
 - Workstations (Active and Standby)
 - Monitors (Active and Standby)
 - Laptop (Active and Standby)
 - Servers
- CO₂ Emission based on KWh
- Power Cost (based on configurable electricity cost)





Power Mgmt Savings Statistics

- Savings from computer power management, per computer per year

One Workstation

KWh

490

Carbon Savings

345 kg

Cost Savings

\$50



Savings from Power Management

Computer Standby Mode

Electric Savings	Approximately 84 watts per computer per hour. For 118,000 computers this totals 57,886,000 KWh per year.
Total USDA Carbon Savings	40,500 metric tons per year (.7 kg/KWh)
Total USDA Dollar Savings	\$6,370,000 per year (\$ 0.11 per KWh)



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