



## Enterprise Desktop Power Management Standards

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# Background - Energy

- **Executive Order No. 484**, issued April 2007, requires state agencies to reduce energy consumption and greenhouse gas emissions in state facilities.
  - State Government greenhouse gas emissions total more than 1 million tons per year
- Energy Strategies:
  - Comprehensive building energy efficiency programs
  - Building standards for state construction and renovation
  - Purchase of energy efficient products
  - Increased energy conservation by employees
  - On-site renewable energy
  - Reduce plug-loads through technologies, operations & behaviors

# Our Computer Circumstance

- Computers in MA Executive Agencies
  - ~ 50,000 Desktops and Laptops
  - Multiple responsible agencies
- Executive Branch Agencies
  - Information Technology Division (ITD) oversees IT policies and standards for all executive agencies
  - Many agencies have their own IT unit
  - In addition to EB agencies, the Commonwealth has Constitutional Offices, Judicial and Legislative branches, 29 state colleges and universities, and other governmental entities
- Statewide contracts require PCs to be ENERGY STAR certified
- Assumed most monitors are set to sleep while most cpus are not

# Solution

- Work on a strategy to ensure consistent compliance with ENERGY STAR goals
- Preliminary analysis showed a 13 million kWh and \$2 million savings
- Establish Inter-agency Team, headed by the Information Technology Division (ITD)
  - Team members: DOER, procurement office, 1 agency with CPM policy, 1 agency without CPM policy
  - Multi-month process: consult with EPA and consulting companies; evaluated in-house solutions, free solutions such as EZ GPO, and 3<sup>rd</sup> party solutions
- Developed final Enterprise Desktop Power Management Standards
  - Published September 12, 2008 with a 4-month window for compliance

# CPM Standards

- **Divided Requirements into four different sub-sectors:**
  - Workstation Power Management Requirements
  - Existing Workstation Power Management
  - Remotely Accessed Workstation Minimum Requirements
  - Special Purpose Workstations Minimum Requirements
- **Existing Basic Work Station Minimum Requirements :**
  - **Monitors**
    - Monitors must be set to sleep after 10 minutes of inactivity.
    - Monitors should be shut off whenever the workstation is completely powered down or is in standby mode.
    - Screen saver options must not be enabled.
  - **CPU's/Base Unit's**
    - CPU's/Base Unit's must be set to sleep (S3) after 30 minutes of inactivity.
    - CPU's/Base Unit's must be shut down during non-business hours (when an employee leaves for the day/night) unless administrative activities need to be performed. After all network administrative activities have been completed, these units must be shut down until needed.
- The complete Standards can be found on the ITD website:
  - <http://bit.ly/downtnV>

# Follow-up and Compliance

- June 2009 – Survey sent to agencies to evaluate the status of agency compliance with the Standards
  - Survey results determined that there was moderate compliance
  - Several large agencies identified as bulk of non-compliant entities
- Additional follow-up to:
  - Discuss barriers to implementation
  - Explore various options
- Currently examining 3<sup>rd</sup> party paid solution

# Lessons Learned

- Link to broader policies
- Identify cost-savings up-front
- Paint as a “no-brainer”
- Include various stakeholders, including those with and without buy-in
- Acknowledge and hand responsibility to those with authority to make decisions (in Mass. ITD)
- Bring in outside experts who speak the language
- Create standards using language understood by IT
- Claim to not understand anything IT says 😊