



# Enterprise Backup 2013 Status

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## Agenda

- Back-up process challenge
  - Problem
  - Solution
- Back-up methodology
- Back-up methodology and improvements
  - Enterprise backup and recovery solution (EBARS)
  - Avamar/Netbackup remote
  - Daily reports

# Back-up process challenge

## Problem

- No documented and acknowledged back-up policy agreement
- Pre-IT infrastructure program back-up policies created uncertainty of exactly what was and was not being backed up
- Lack of reporting or insight to nightly processes

## Solution

- Backup everything, coincides with resource unit (RU) structure
- Documented all exceptions/exclusions and documented agreement
- Policy defaults to “inclusion”
- Change control for any modifications
- Develop reporting mechanisms

# Back-up methodology

- CESC: EBARS
- Remote/agency: De-duplication technology
  - (Avamar and Netbackup remote)

## Back-up methodology and improvements

### EBARS

#### – Improvements

- Added capacity (virtual tape)
- Refreshed and added infrastructure: master and media servers; upgraded internal network from one gigabit (GB) to 10 GB
- Plan to upgrade to DataDomain and eliminate back-up virtual tape concept
- Created dashboard for reporting nightly back-up statistics per agency

#### – Stats

- January 2012: 93 percent success rate; 5,500 nightly jobs; 60 terabytes (TB) average nightly backed up
- February 2013: 98 percent+ success rate; 7,000 nightly jobs; 85 TB average nightly backed up
  - Growth resulted from systemic growth and policy inclusion change

## Back-up methodology and improvements

### Avamar/Netbackup Remote

#### – Improvements

- Completed conversion for all transformed sites
  - Eliminated disparate back-up methodologies
- Upgraded all grids (latest hardware and software revisions)
- Daily delivery of back-up statistics to agency

#### – Stats

- January 2012: Backed up 960 servers with 111 TB data protected
- February 2013: Backup 1,300+ servers with 156 TB data protected

## Back-up methodology and improvements

- Report mechanism developed
  - Daily reports made available for all enterprise backups
    - Work through your agency operations manager (AOM) for administering the report distribution

# Questions?