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### MEMORANDUM FOR CHIEF INFORMATION OFFICERS

FROM: Richard Spires  
CIO, DHS

Michael Duffy  
CIO, Treasury

Subject: Federal Data Center Consolidation Initiative Initial Plans

The next deliverable for the Federal Data Consolidation Initiative is an agency Initial Data Center Consolidation Plan, due on June 30. In the initial plans, agencies should provide their high-level goals, initiatives, and governance of their consolidation effort. In building the initial consolidation plan, each agency should consider the following factors:

- Continued downward pressure on Federal agency spending as part of deficit reduction efforts
- Bureau-specific, agency component-specific, and program-specific data center footprints with increasing space allocations, energy costs, and real estate costs are not defensible when reasonable alternatives exist
- If agencies require additional expenditures as part of the consolidation efforts, these costs should be offset by corresponding reductions in infrastructure, real property, personnel, and energy.
- Alternatives to in-house implementation, including valid commercial options to reduce costs of IT services without affecting bureau missions (IaaS, PaaS, and/or SaaS)
- If “in-house” solutions are needed to meet performance or security requirements, agencies should maximize Department-wide services, interagency sharing, co-location and virtualization.

At the beginning of the program, OMB set the following goals for the initiative:

- Reduce the cost of data center hardware, software and operations
- Increase the overall IT security posture of the government
- Shift IT investments to more efficient computing platforms and technologies
- Promote the use of Green IT by reducing the overall energy and real estate footprint of government data centers

To achieve these goals, agencies should consider targeting greater efficiencies in the following areas:

- Improved performance, reliability and availability of services
- Increased security
- Better data management (ability to use, re-use, share, etc.)
- Greater cost efficiency
- Elimination of bureau-specific,
- Agency component-specific, program-specific, and one-off “data centers”
- Implementation of Shared Services (either government or commercial) where practical, for:
  - WAN and Internet access;
  - Identity and Access management services
  - Email and related collaboration tools;
  - Public Web Sites

- All administrative support applications (financial management, human resources, procurement, et al.)
- Achieve maximum virtualization (servers and storage, desktops/workstations, etc.)

The high-level plans should be used by each Agency to project their target reduction in IT assets reflected in the Initial Consolidation Plan Reduction Targets Template. These targets will be projected for Data Centers, Aggregate Gross Floor Area, Total Number of Racks and Total Number of Servers. As agencies' final asset baseline inventories are collected and refined, revised consolidation plans will be developed and the targets may change.

Agencies should view the process by which these high level targets are generated as the first step to inform final agency data center consolidation plans. Data center consolidations plans should be crafted from a strategic perspective, taking into account the comprehensive needs of the Department, relevant enterprise architectures and agency-specific capital planning processes. While data center consolidation plans will evolve over time, agencies should consider how these plans will be included in their agency's budget submission for FY2012 and beyond. Data center consolidation plans should be integrated into agency capital plans, consistent with OMB Circular A-11<sup>1</sup> guidance/rules.

The Initial Consolidation Plan should include the following sections with the corresponding page limits:

1. Introduction (no more than 1/2 page)
2. Agency Goals for Data Center Consolidation (no more than 1/2 page)
3. Agency Approach, Rationale, and Timeline (no more than 1 page)
4. Agency Governance Framework for Data Center Consolidation (no more than 1/2 page)
5. Appendix: Attached template for Initial Data Center Consolidation Plan

A completed sample submission of the Appendix: Initial Consolidation Plan Reduction Targets Template follows:

Agency-Wide Savings Plan					
Department Name		Department ABC			
Agency Name		ABC Agency Name			
		Calculated from Baseline	Target		
		4Q10	4Q11	4Q12	4Q13
Total Number of Data Centers (#)		274	250	220	200
Aggregate Gross Floor Area (sq.ft.)					
Total Number of Racks (#)		3871	3600	3300	3000
<b>Total Number of Physical Servers by Type (#)</b>					
Mainframes (IBM or compatible)		25	24	24	22
Mainframes (Other)		9	9	9	7
Windows Servers		9876	9500	9300	9000
Linux Servers		4808	5000	5500	6000
UNIX Servers		2244	2000	1500	1000
Other Servers		610	550	500	400
Aggregate Data Center Energy Usage (kWh/year)					
Aggregate Data Center Energy Costs (\$/year)					
Aggregate Data Center Building Operational Cost (\$/year)					
Aggregate FY Construction, Expansion, Consolidation Budget (\$/year)					

We look forward to working with you on this important initiative. If you have questions about the initiative, please contact Richard Spires at 202-447-3735 (Richard.Spires@dhs.gov) or Michael Duffy at 202-622-5093 ([Michael.Duffy@do.treas.gov](mailto:Michael.Duffy@do.treas.gov)).

Attached: Initial Consolidation Plan Reduction Targets Template

<sup>1</sup> For example, the FY2012 Exhibit 53 contains a new column whose heading is, "Is this investment accounted for in the agency Data Center Consolidation Plan?" The column is a yes/no question and will assist OMB in identifying how agency data center consolidation plans align with agency IT portfolios.