

Fedv6: Agency Transition Checklists

Note: This is a read-only version of the .xls file. The original, editable version of the .xls file is available as https://community.max.gov/download/attachments/550834962/Fedv6_Checklists_v1.1.xls?api=v2

General: The OMB Memorandum titled "[Transition to IPv6](#)" and dated September 28, 2010 stipulates two enterprise network goals:

- 1) **"Update public facing/external servers and services to native IPv6 by end FY 2012".**
- 2) **"Upgrade internal client applications that communicate with public Internet servers and supporting enterprise networks to use native IPv6 by end FY 2014"**

The Federal IPv6 Task Force is charged with facilitating Agencies to realize these goals. The following checklists are for use by *Agencies* to communicate with the Federal IPv6 Task Force and accomplish these goals. OMB and the Federal IPv6 Task Force will use this information to monitor the penetration of IPv6 over time.

A *Public & External Facing Servers and Services* checklist is provided to list the services specific to OMB Goal 1.

An *Internal Client Applications that Communicate with Public Internet Servers and Services* checklist is provided to list the services and detail the interim transition steps specific to OMB Goal 2.

An *Agency Transition Manager* checklist is provided for Agencies to identify and sequence the processes needed to effect transition across all units in the Agency.

Note: The attached checklist shall show progressive rollout of IPv6 services between April 2011 and September 2012 (for Goal #1) or September 2014 (for Goal #2).

In support of 1) **"Update public facing/external servers and services to native IPv6 by end FY 2012"**:

Every Agency should list on the worksheet titled "*Public & External Facing Servers and Services*", the URL, the projected IPv6 live date and the completion checkmark for:

- Its primary DNS server at each Agency site, and all other DNS servers.
- All web servers with publicly accessible content.
- The mail server address at every Agency mail server.

The first step is for agencies to use the checklist provided to create a detailed plan with effective dates of transition for each node, progressively spreading from April, 2011 to September 30, 2012. Following completion of a plan for achieving the FY2012 goal, agencies are to expand their plan to incorporate their activities for achieving the FY 2014 goal.

Discussion of #1: For the purposes of internal Agency testing of your rollout of the 2012 mandate, the Task Force has made available the *USG IPv6 Deployment Test Specification* (at <http://www.antd.nist.gov/usgv6/deploy.html>) which details progressive tests of DNS, Web and Mail servers.

In support of 2) **"Upgrade internal client applications that communicate with public Internet servers and supporting enterprise networks to use native IPv6 by end FY 2014"**:

Every Agency should list on the worksheet titled "*Internal Client Servers and Services*" the type of service, number of clients affected, test method, planned and actual IPv6 live dates. The Service column can be as detailed as necessary. For the Test Method column - generic services can include generic tests such as those in the Deployment Test Specification. Other services listed will require Agency specific test methods to be identified. *We understand that this list can be fairly dynamic over time, so your answers to this are not expected to be set in stone.*

Discussion of #2: Internal Clients include your employees desktop computers, with their web browsers and mail clients. They will generally require 'hands on' testing locally. For web browsers and mail clients these tests can include 'real effects' tests in the *USG Deployment Test Specification*. Given the large number of clients involved, your testing may include a sampling method, as exhaustive testing will not be possible.

NOTE: The CIO Council FAQ document at max.gov provides additional information relating to the Federal IPv6 deployment.

| Fedv6 Task Force: Agency Transition Manager Checklist | | | | | | |
|---|----------|--|-------------------------|-----------------------------------|---------------------------|-------------------------|
| Number | Category | Query | Response (Yes, No, N/A) | Additional Comments (as required) | Artifact (if appropriate) | Planned Completion Date |
| Planning | | | | | | |
| 1 | | Have you identified an Agency team of key stakeholders and their responsibilities for meeting the OMB FY 2012 and 2014 mandates? | | | | |
| 2 | | Are your Agency's plans in synchronization with the Federal IPv6 Task Force and OMB FY 2012 and 2014 mandates (strategy, milestones, compliance with policy)? | | | | |
| 3 | | Has your Agency developed guidance for delineating your Agency's strategy and responsibilities for managing and achieving the OMB FY 2012 and 2014 mandates? | | | | |
| 4 | | Have you completed the identification of your Agency's IT assets within scope of the FY 2012 mandate (public facing servers and services, for example, web, email, DNS, FTP, ISP services, etc)? | | | Tab 2 of this worksheet. | |
| 5 | | Have you completed the identification of your Agency's IT assets within scope of the FY 2014 mandate (internal client applications that communicate with the public Internet services and supporting enterprise networks)? | | | Tab 3 of this worksheet. | |
| 6 | | Have you incorporated USGv6 compliant products in your acquisition planning per the FAR? | | | | |
| 7 | | Have you identified any unique IPv6 requirements from your user community? | | | | |
| 8 | | Have your plans been approved by the appropriate authority and key stakeholders within your Agency? | | | | |
| 9 | | Have you integrated funding for IPv6 migration into agency IT investments? | | | | |
| 10 | | If using other than dual-stack implementation strategy, please specify and note rationale. | | | | |
| 11 | | Are there IPv4-only ("legacy") assets affected by the OMB FY 2012 mandate that cannot support IPv6? If so, please specify. | | | | |
| 12 | | Are there IPv4-only ("legacy") assets affected by the OMB FY 2014 mandate that cannot support IPv6? If so, please specify. | | | | |

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| 13 | | Do you have security policies, procedures, and devices/tools for securing your Agency's IPv6 operations? If you do not have all the necessary tools, have you communicated your requirements to the vendors? | | | |
| 14 | | Are there any critical dependencies or planning issues that have not been addressed or resolved related to meeting the OMB FY 2012 mandate? If so, please specify. | | | |
| 15 | | Are there any critical dependencies or planning issues that have not been addressed or resolved related to meeting the OMB FY 2014 mandate? If so, please specify. | | | |
| Acquisition | | | | | |
| 16 | | Do applicable Agency acquisitions/contracts specify IPv6 per the FAR (i.e., use USGv6 tested products; accommodate IPv6 in network infrastructure, services, and management tools and applications; comply with Agency security guidelines; and conform with USGv6 NPD profile)? If not, what IPv6 requirements are being used? | | | |
| 17 | | Have you incorporated the USGv6 profile in applicable requirements documents? | | | |
| 18 | | Does your Agency have a process for permitting non-conforming products/devices (e.g., no SDOC or cases where mission requirements dictate)? If so, please specify. | | | |
| 19 | | Does your Agency have a process for ensuring that non-conforming procured items are migrated to IPv6 at a later date? | | | |
| External Dependencies | | | | | |
| 20 (a) | | To achieve the requirements of the September 2010 memorandum, has your agency identified all required department-wide IPv6 services that duplicate your current IPv4 services? (This includes equipment/software needed to facilitate those services if you are procuring your own equipment/software.) | | | |
| (b) | | If your service provider(s) is procuring equipment for you, briefly describe your agency's progress in ensuring requirements/orders are submitted to the provider(s) for equipment, software, etc. | | | |

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| (c) | | Of the IPv6 service capabilities or equipment, software, etc. requested of vendors, were there any that they were not able to provide at this time (please explain)? | | | | |
| (d) | | Does your agency have a plan to ensure all affected agency contracts (e.g. managed web hosting services, etc.) that require modification will be modified in time to achieve the requirements of the September 2010 memorandum? | | | | |
| (e) | | Where your agency is dependent upon external contracts (e.g. Network), has your agency communicated its requirements to the providers? | | | | |
| 21 | | Is your agency on track to procure all needed services and/or equipment, software, etc. in time to achieve the FY2012 and FY2014 deadlines? | | | | |
| Addressing | | | | | | |
| 22 | | Has your Agency requested IPv6 address space from the American Registry of Internet Numbers (ARIN) or equivalent? | | | | |
| 23 | | Has your Agency received IPv6 address space from ARIN or equivalent? | | | | |
| 24 | | Does your Agency have an IPv6 Address Plan delineating the process for acquiring, allocating, distributing, and using IPv6 addresses within the Agency? | | | | |
| 25 | | If you use IP Planning and Address Management (IPAM) tools to assist with IPv6 address allocation and management, have they been upgraded for IPv6? | | | | |
| Test & Evaluation | | | | | | |
| 26 | | Has your Agency developed test/demonstration plan(s) for services affected by the OMB FY 2012 mandate? If not, when do you expect to have them developed? | | | | |
| 27 | | Has your Agency developed test/demonstration plan(s) for services affected by the OMB FY 2014 mandate? If not, when do you expect to have them developed? | | | | |
| 28 | | Are all system components used in your Agency's networks tested in USGv6 accredited test laboratories? If not, indicate rationale. | | | | |

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| Implementation | | | | | | |
| 29 | | Has your Agency developed an implementation plan/timeline? | | | | |
| 30 | | Does the schedule address the availability of needed hardware and software to implement the OMB FY 2012 mandate? | | | | |
| 31 | | Does the schedule address the availability of needed hardware and software to implement the OMB FY 2014 mandates? | | | | |
| 32 | | Are there any significant issues or showstoppers that would prevent your Agency from meeting the OMB FY 2012 mandate? If so, please specify. | | | | |
| 33 | | Are there any significant issues or showstoppers that would prevent your Agency from meeting the OMB FY 2014 mandate? If so, please specify. | | | | |