

***NATIONAL WEATHER SERVICE POLICY DIRECTIVE 60-5***

***November 21, 2017***

***Information Technology***

***ENTERPRISE ARCHITECTURE, CAPITAL PLANNING AND INVESTMENT  
CONTROL PROGRAMS***

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**NOTICE:** This publication is available at: <http://www.nws.noaa.gov/directives/>

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**Certified by:** W/OACIO (R. Varn)

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**SUMMARY OF REVISIONS:** This directive supersedes NWSP 60-5, “*Enterprise Architecture, Capital Planning and Investment Control Programs*”, dated January 2, 2013. Changes were made to reflect the NWS Headquarters reorganization effective April 1, 2015.

Changes include: Conformance to provisions of the Federal Information Technology **Acquisition Reform Act (FITARA)**, **Federal Data Center Optimization Initiative and Federal Enterprise Architecture Framework (FEAF)** version 2

### **Introduction**

Enterprise Architecture (EA) is a management practice for aligning resources to improve business performance and to help agencies better execute their core missions. Authorities include the Clinger-Cohen Act (CCA), the E-Government Act and the Office of Management and Budget (OMB).

Capital Planning and Investment Control (CPIC) addresses IT project prioritization between new assets and maintenance of existing assets, risk management and cost estimating to improve the accuracy of cost, schedule and performance provided to management, and the other difficult challenges proposed by asset management and acquisition. IT Portfolio Management (PfM) is systematic management of investments, projects and activities of enterprise Information Technology (IT).

### **Objective**

The objective of this Directive is to guide IT investment decisions through Enterprise Architecture (EA), Capital Planning and Investment Control (CPIC), and IT Portfolio Management (PfM) by complying with applicable laws, regulations, directives and mandates to support a disciplined planning and execution of established Office, Bureau and Agency strategic goals.

## **Responsibilities**

This directive establishes the following authorities and responsibilities:

The Assistant Chief Information Officer (A/CIO) for Weather:

- Sponsor CPIC and EA at the executive level.
- Manage the Programs and allocate resources.
- Collaborate with each Office and Region to ensure that the subject NWS programs reflect the NWS strategy, roadmap, business functions, and operations.
- Coordinate activities with the NOAA O/CIO.
- Verify compliance when reviewing and making recommendations on IT budget formulation, spending plans and acquisitions.
- Advise NWS Leadership on existing and new investments in IT and associated impact to systems and the NWS enterprise, across the public, private, and academic sectors.
- Collect information from various channels to develop models of NWS current, future, and transitional architectures in compliance with the FEAF. FEA These models are used to analyze initiatives, current IT assets, business needs, and technology trends to advise NWS Leadership on IT strategies and support portfolio IT investments.
- Publish the NWS IT Capital Planning and Investment Control Guide.
- Ensure compliance with NWS and NOAA EA plans.
- Examine acquisitions to leverage shared services, strategic sourcing, and incremental or modular contracting where appropriate.

Portfolio, Program, Project Managers and Regional Offices, are responsible to:

- Collaborate with the OACIO to ensure compliance CPIC and EA mandates.
- Allocate resources to develop and provide artifacts to support CPIC and EA activities.
- Develop and document the architecture of systems and investments within the FEA framework.
- Comply with the NWS IT Capital Planning and Investment Control Guide.

## **Measuring Effectiveness**

The CPIC Program will perform IT investments reviews on a quarterly basis, and corrective actions will be instituted when deemed necessary.

This policy directive is supported by the references listed in Attachment 1.

Signed  
Louis W. Uccellini  
Assistant Administrator for National Weather Services

November 7, 2017  
Date

**ATTACHMENT 1:  
ENTERPRISE ARCHITECTURE AND CAPITAL PLANNING AND  
INVESTMENT CONTROL PROGRAM:**

- a. Federal Information Technology Acquisition Reform Act
- b. Clinger-Cohen Act of 1996 (CCA), as amended.
- c. Government Performance and Results Act of 1993 (GPRA).
- d. NWS Instruction 1-101, NWS Directives system-Structure and management.
- e. National Weather Service IT Capital Planning and Investment Control Guide.
- f. Office of Management and Budget (OMB) Memorandum, M-15-14, Management and Oversight of Federal Information Technology
- g. Federal Enterprise Architecture (FEA) version 2
- h. National Weather Service: Weather-Ready Nation Roadmap, April 2013, [http://www.nws.noaa.gov/com/weatherreadynation/files/nws\\_wrn\\_roadmap\\_final\\_april17.pdf](http://www.nws.noaa.gov/com/weatherreadynation/files/nws_wrn_roadmap_final_april17.pdf)
- i. Federal Cloud Computing Strategy, Feb 8, 2011
- j. Federal Risk and Authorization management Program, FedRAMP, <https://www.fedramp.gov/>
- k. Office of Management and Budget (OMB) is proposing to revise Circular No. A-130, 2 Managing Information as a Strategic Resource
- l. Office of Management and Budget (OMB) Circular No. A-11, Part 7.
- m. Federal Data Center Consolidation and Optimization Initiative (Federal Data Center Consolidation Initiative (FDCCI) and Data Center Optimization Initiative (DCOI)), <https://cio.gov/drivingvalue/data-center-consolidation/>
- n. Circular A-130, Management of Federal Information Resources, Office of Management and Budget.
- o. Office of the CIO: Enterprise Architecture Policy, U.S. Department of Commerce, June 2007. Office of the CIO: Enterprise Architecture Responsibilities of Commerce Operating Unit CIOs, U.S. Department of Commerce, December 2004
- p. NOAA Administrative Order 212-14: Management of Environmental and Geospatial Data and Information