Table of Contents

_	INTRODUCTION	6
	Equipping Chief Information Officers (CIOs)	7
	GENERAL	10
	1. Under what authority is this IT Budget - Capital Planning Guidance issued, and how does it rel to A-11 Section 55?	
	2. How do I submit annual, quarterly, and other regular updates of IT budget and management information, and when is it due?	10
	2.1 Annual Reporting	10
	2.2 Regular Updates Reporting	13
	3. How is IT spending categorized?	14
	4. If I submitted an Agency IT Portfolio Summary last year, how do I revise it this year?	15
	AGENCY-LEVEL REPORTING	16
	IT RESOURCE STATEMENTS	16
	5. How do I report IT Resource Statements?	16
	AGENCY BUDGET ACCOUNTS SUMMARY	17
	6. How do I report the Agency Budget Accounts Summary?	17
	INVESTMENT-LEVEL REPORTING	18
	AGENCY IT INVESTMENT PORTFOLIO SUMMARY	19
	7. What is the Agency IT Portfolio Summary?	19
	7.1 Budget Account Codes	19
	7.2 TBM IT Portfolio Reporting	19
	7.3 Standard Components in the IT Portfolio	20
	7.4 IT Cost Pools	26
	7.5 IT Towers	28
	CIO EVALUATION REPORT	31
	8. What is the CIO Evaluation?	31
	SYSTEMS INVENTORY LIST	33
	9. What is the Systems Inventory?	33
	CONTRACTS REPORT	35
	10. What is the Contracts Report?	35
	MAJOR IT BUSINESS CASE	36
	11. What is the Major IT Business Case?	36
	11.1 How will Agencies manage IT capital assets/Investments?	36

FY 2020 IT Budget – Capital Planning Guidance

34 35	11.2 What must I report in the Major IT Business Case and Major IT Business Case Detail, and when?39
36 37	11.3 How will Multi-Agency Collaboration and Intra-Agency Shared Services Investments be captured in the Major IT Business Case and Major IT Business Case Detail?39
38	11.4 What fields are included and how do I complete the Major IT Business Case?40
39	MAJOR IT BUSINESS CASE DETAIL44
40	12. What is the Major IT Business Case Detail?44
41 42	IT INFRASTRUCTURE, IT SECURITY, AND IT MANAGEMENT STANDARD INVESTMENTS56
43 44	13. How do IT Infrastructure, IT Security, and IT Management Standard Investments differ from Major Business Cases?
45	14. IT Security and Compliance Standard Investment
46	15. IT Management Standard Investment
47	16. Network Standard Investment
48	17. Data Center and Cloud Standard Investment
49	18. End User Standard Investment
50	19. Output Standard Investment
51	20. Application Standard Investment
52	21. Delivery Standard Investment
53	22. Platform Standard Investment
54	APPENDIX A. LEGAL REGULATORY AUTHORITIES77
55 56	APPENDIX B. CODING INSTRUCTIONS FOR ADMINISTRATIVE AND MISSION SUPPORT SHARED OR CENTRALIZED SOLUTIONS79
57	APPENDIX C. DEFINITIONS81
58 59	APPENDIX D. TECHNOLOGY BUSINESS MANAGEMENT IT COST POOLS AND IT TOWERS
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	

Summary of Changes

The following revises references to background information and updates citations to reflect current guidance, including OMB Budget Guidance for FY 2020.

Large structural changes:

- Added <u>Submission Confirmation</u> to verify that the submission is complete at the end of the <u>Agency IT Investment Portfolio submission</u> and <u>Major IT Business Case</u> and <u>Standard Investment Report submissions</u> and to allow for portfolio validation (Page 12)
- Updated <u>Systems Inventory</u> to apply to all Investments that fund at least one IT system (Page 33)
- Added <u>Contracts Report</u> section to streamline Major IT Business Case and Standard Investment Report Contracts and Acquisition Strategy tables by removing 15 existing data fields with two contract-related fields by leveraging FPDS data (Page 35)
- Updated <u>IT Security and Compliance Standard Investment Report</u> to replace capabilities reporting with Security and Operations Center (SOC) reporting (Page 59)
- Prior Year (PY), Current Year (CY), and Budget Year (BY) are defined in <u>Appendix C</u> as Budgetary Resources (Page 81)
- Updated Cost Pool and IT Tower fields and definitions to align with reporting to taxonomy v2.1
- Removed Agency Data Center Spending Summary data reporting from the Agency Portfolio Summary

Updates to Agency Budget Account Summary Requirements (Page 17):

• Added "Total Agency Funding BY (Budget Authority) 2020" field

Updates to Agency IT Investment Portfolio Summary Requirements:

- Added "Mission Support Investment Category" to the Standard Components in the IT Portfolio table (Page 21)
- Updated <u>IT Tower</u> fields to indicate that they are all required for the Initial Submission in September, consistent with the TBM roadmap (Page 28)
- Added <u>Platform</u> as an IT Tower (Page 30)

Updates to **CIO Evaluation Report** Requirements (Page 31):

No Changes

Updates to Systems Inventory List Requirements (Page 33):

- Added the following fields:
 - o Anticipated Major Tech Refresh Date (Page 33)
 - o Product Name (Page 33)
 - o <u>Vendor Name</u> (Page 33)
 - o Version Number (Page 33)
 - o Expected End of Life (Page 34)

Updates to Contracts Report Requirements (Page 35):

• Updated contract and acquisition fields (Page 35)

Significant Updates to Major IT Business Case Requirements (Page 36):

- Updated <u>Return on Investment (ROI)</u> field to include both quantitative and qualitative analysis requirements for the Investment's Alternative Analysis (Page 41)
- Removed the following sections:
 - Section D: Acquisition/Contract Strategy
 - Section E: Systems Inventory (Administrative Services and Mission Support Systems only)

Significant Updates to Major IT Business Case Details Requirements (Page 44):

• Clarified that maintenance-related projects within O&M spending should be reported by agencies (Page 44)

- Updated the Risk Probability and Impact fields in <u>Section B: Investment Risk</u> to standardize risk reporting government-wide (Page 45)
- Added the following fields to Section C: Project Plan and Execution Data (Page 47):
 - Field 11 to require agencies to distinguish which of their IT projects is funded through the Technology Modernization Fund (TMF) or their Agency's IT Working Capital Fund (IT WCF) (Page 48)
 - o Field 12 to describe the extent to which the project is using commercial products and services (Page 48)
 - Field 13 to describe, if applicable, the project's reasoning for not using commercial services and products
 - o Field 14 to provide the estimated development and customization costs associated with the project's custom developed solution(s)
- Removed the following fields from the Project Activity Table C.2.1
 - o Field 5: Type of Activity
 - Field 6: Critical Path

Significant Updates to <u>IT Infrastructure</u>, <u>IT Security</u>, and <u>IT Management Standard Investments</u> Requirements (Page 56):

- Updated the following standard investments
 - o IT Security and Compliance Investment Report (Page 59)
 - Removed Section B: IT Security Costs and Capabilities
 - Added <u>Section B: Security Operations Center Reporting</u> (Page 59)
 - o Network Standard Investment Report (Page 63)
 - Removed Section C: Contracts/Acquisition Strategy
 - Added Section C: Project Plan and Execution Data (Page 64)
 - O Data Center and Cloud Standard Investment Report (Page 66)
 - Revised the requirement from requiring reporting all tiered data centers to reporting at the finest granularity possible for each agency
 - Removed the Federal Real Property Profile ID field from Section A:
 General Information
 - Removed Section C: Contracts/Acquisition Strategy
 - End User Standard Investment Report (Page 69)
 - Removed Section C: Contracts/Acquisition Strategy
 - Added the following Activity Tables:
 - Project Activity Table C.2.1 (Page 70)
 - Project Activity Table C.2.2 (Page 70)
- Added the following standard investments
 - Output Standard Investment (No Standard Investment Report) (Page 71)
 - o <u>Application Standard Investment</u> (Standard Investment Report Optional) (Page 72)
 - o <u>Delivery Standard Investment</u> (Standard Investment Report Optional) (Page 74)
 - o Platform Standard Investment (No Standard Investment Report) (Page 76)

Other:

- Removed FY 2019 Appendix D IT Security Capability Definitions
- Renamed FY 2019 Appendix E Technology Business Management IT Cost Pools and IT Towers as new Appendix D (Page 111)

POST-95% SOLUTION CHANGE LOG

This change log represents revisions made between the 95% solution released on May 11, 2018 and this final version.

Page	Edit Version.			
5	Added Change Log to Guidance			
12	Updated dates that were previously "Tentative" or "TBD"			
12	Clarified that the June submission only applies to applicable accounts			
20	Removed "Investments should only report IT Towers and Cost Pool spend data at the point of execution"			
23	Clarified the explanation of Type 04 Funding Transfer Investments in field 10			
26	Clarified Data Center ID to only require relevant data centers to be reported			
28	Clarified that only Type 04 Funding Transfer Investments should report amounts within the Internal Services Cost Pool for Agency IT Investment Portfolio Summary fields 63, 64, and 65			
33	Revised "As a single system may include multiple products, Investments may report multiple entries for a single system, if applicable." to read as "An information system may be reported for more than one investment, if applicable."			
34	Corrected typo in Product Table B.2 Product Function(s) field to specify that each entry should be 7 digit codes rather than 6 digit codes.			
35	Revised Contracts Report to indicate that it applies to all Type 01 Major IT and Part 3 Investments for IT Infrastructure, IT Security, and IT Management			
35	Removed "N/A" as reporting option for Contracts/Acquisitions Table field 2			
41	Hyperlinked "spreadsheet" to a download link for Performance.gov reports in field 2			
41	Updated Agency Strategic Objective (ASO) and Agency Priority Goal (APG) Investment alignment in the Major IT Business Case by clarifying "alphanumeric identifier provided by performance.gov. [11 char]"			
46	Fixed typo to reflect that "Risk Impact" should be reported on a five-point scale			
48	Fixed typo to say Projects Table C.1 field 10 is not required for "SDLC Methodology #3"			
48	Renamed Projects Table C.1 field 12 from "Commercial Solutions Explanation" to "Commercial Solution(s) Adoption"			
48	Renamed Projects Table C.1 field 13 from "Commercial Solutions Justification" to "Commercial Solution(s) Reasoning"			
48	Renamed Projects Table C.1 field 14 from "Commercial Solutions Costs" to "Commercial Solution(s) Costs"			
48	Clarified that fields 12, 13, and 14 only apply to projects that respond "TMF" or "IT WCF" to "Funded by TMF or IT WCF Funding?"			
54	Updated Agency Strategic Objective (ASO) and Agency Priority Goal (APG) reporting in performance metrics by clarifying "alphanumeric identifier provided by performance.gov. [11 char]" in field 10			
74	Fixed typo to confirm that CRM stands for "Customer Relationship Management" rather than "Customer Resource Management"			
Throughout	Updated hyperlinks for the FY 2020 IT Budget – Capital Planning Guidance formal URL			

76 INTRODUCTION

This document provides technical guidance and specific requirements outlined in A-11 Section 55. This introduction is designed to provide context and the overarching strategy behind the changes outlined in this document. In this FY 2020 IT Budget – Capital Planning Guidance, OMB is implementing additional changes that build upon what was done in FY 2019 and chart a course that will continue through the FY 2021 budget cycle and the life cycle of these investments. The cornerstone of this data and Investment management strategy is the Technology Business Management (TBM) Framework.

Technology Business Management (TBM) is a value-management framework instituted by CIOs, CTOs, and other technology leaders. Founded on transparency of costs, consumption, and performance, TBM gives technology leaders and their business partners the facts they need to collaborate on business aligned decisions. Those decisions span supply and demand to enable the financial and performance tradeoffs that are necessary to optimize run-the-business spending and accelerate business change. The framework is backed by a community of CIOs, CTOs, and other business leaders on the Technology Business Management Council.¹

- From TBM Taxonomy Version 2.1, from the Technology Business Management Council.

OMB is leveraging this widely adopted open source taxonomy, which is used within private, public and academic sectors and generating significant value. Leveraging a taxonomy that provides a standard business model for IT and is proactively managed by a non-profit organization also alleviates some of the burden for the government to identify, define, and achieve consensus on the standards and terms used.

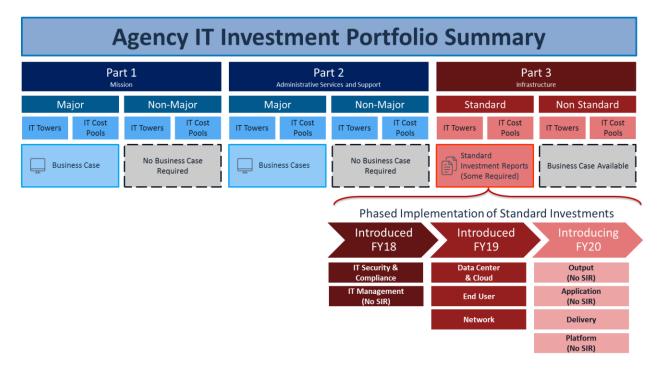
OMB is following an incremental process to roll out these changes. There will not be a sudden, wholesale transformation in any given year, in which the lights are turned off on the legacy process and turned on the next day with a new TBM-based process. Instead, beginning with the FY 2018 Guidance, elements of the new TBM-based approach are being phased-in. Consistent with the Federal IT Acquisition Reform Act (FITARA) OMB Common Baseline Implementation (M-15-14), OMB recognizes that each Agency has a different level of maturity and capability to absorb these changes and produce the right data. This is why OMB is emphasizing a multi-year strategy and approach in implementing changes to the Capital Planning and Investment Control (CPIC) process. The intent is that by sharing agencies can understand the proposed changes, internalize them, and establish a program to advance IT budgeting into the 21st century.

internalize them, and establish a program to advance IT budgeting into the 21st century.

The below graphic contextualizes the types of structural changes introduced in this Guidance that will be phased in a multi-year approach that corresponds with President's Management Agenda (PMA) Cross Agency Priority (CAP) Goal #10, "Improving Outcomes Through IT Cost Transparency." Four additional Standard Investments, including two new Standard Investment Reports are being introduced as optional in FY 2020 for Part 3 IT Infrastructure, IT Security, and IT Management.

¹ Technology Business Management Council, TBM Taxonomy Version 2.1, March 1, 2018

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Equipping Chief Information Officers (CIOs)

OMB's intent is to strongly support CIOs in implementing the authorities within FITARA. Aligning common investments like data centers, end user devices (e.g., laptops, desktops and mobile devices), software, and networks and linking budget and performance is critical to make informed decisions about the performance of these investments. Standard IT Investments and associated Investment Reports will capture relevant information to inform decisions and management oversight.

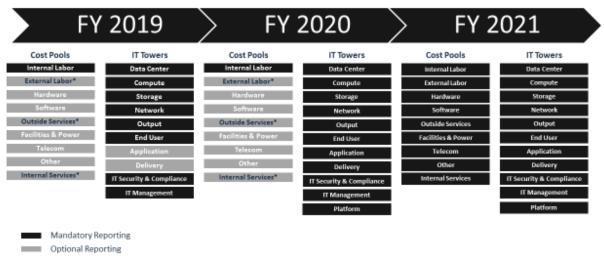
Fully implementing FITARA requires a strong partnership among CIOs, CFOs, budget offices, CAOs, and CHCOs. Aligning budget and financial management with TBM will create a strategic framework that supports A-123, IT modernization, and alignment with Agency budgeting process through the A-11.

While the opportunity to leverage the IT Cost Pools is promising, OMB recognizes that each agency has a different level of maturity, capability and resources to meet this change. Some agencies have already been working to achieve this level of reporting or a closely related capability. Those agencies should endeavor to report the IT Cost Pool data to the greatest extent practical. Agencies that lack the capabilities or resources to deliver this data should consider what changes are necessary to achieve it and take steps to align reporting with the IT Cost Pools.

Consistent with the phased rollout, many of the fields introduced are optional; agencies are strongly encouraged to begin reporting while the fields are optional. This timeframe will afford agencies the opportunity to understand implementation challenges and work directly with OMB to address challenges before all IT Cost Pools, IT Towers and Part 3: IT Infrastructure, IT Security, and IT Management Standard Investments and associated IT Investment Reports are required. While fields/requirements are optional, the data will not be made public on the IT Dashboard. The phased approach is depicted in the two illustrations below.

TBM IT Cost Pools and IT Towers Phased Implementation

TBM IT Cost Pools and IT Towers Phased Implementation



* These cost pools should be prioritized

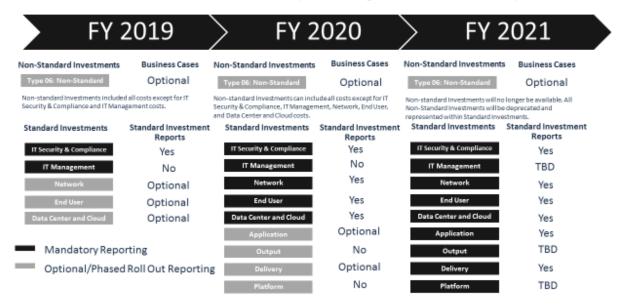
All Investments should work to disaggregate the total investment costs to both IT Cost Pools (financial view) and IT Towers (IT view). Investments may not have costs associated with all IT Cost Pools and IT Towers. The applicable fields should be populated.

FY 2020 Requirements for IT Cost Pools: Throughout the FY 2020 cycle, Internal Labor is the only cost pool that will be required. Internal Labor relates to Government FTE costs, which has been reported for years and removed to report as Internal Labor. External Labor, Outside Services and Internal Services should be prioritized as they relate to M-17-22 efforts. Optional and mandatory requirements will change during FY 2021 cycle to include mandatory submission of all cost pools.

 FY 2020 Requirements for IT Towers: Beginning in the FY 2020 cycle, all applicable IT Tower costs will be mandatory for reporting.

Standard Investments for Part 3 IT Infrastructure, IT Security and IT Management Investments Phased Implementation

Standard Investments for Part 3 IT Infrastructure, IT Security and IT Management Investments Phased Implementation



FY 2020 Requirements for Standard IT Investments: Throughout the FY 2019 cycle, the IT Security and Compliance and IT Management Standard Investments were mandatory while the Network, Data Center and Cloud, and End User Standard Investments were optional. For the FY 2020 cycle, the three previously optional Standard IT Investments and associated Standard Investment Reports will now be mandatory beginning with the Draft Agency IT Investment Portfolio Summary submission. In addition, four new Standard Investments for Output, Application, Delivery, and Platform are being introduced as optional for the FY 2020 cycle. If Agencies elect not to report the optional Standard Investments, they will continue reporting what costs and functions remain in non-standard Investments.

OMB does not expect that all of the changes identified in this guidance will be made immediately. OMB realizes that changes of this magnitude take time to effectively and properly implement across the Federal government. Rather, this guidance outlines changes that will be implemented over time with the overarching mission of creating a more efficient and collaborative government.

164 GENERAL

1. Under what authority is this IT Budget - Capital Planning Guidance issued, and how does it relate to A-11 Section 55?

- 44 U.S.C. § 3602 directs the Administrator to set strategic direction and oversee implementation of
- Agency IT governance activities. As such, Circular A-11 Section 55 provides general policy and
- 169 requirements for Agency IT budget, Investment, and portfolio management, whereas this Guidance
- includes more detailed information on technical requirements and submissions. This detailed information
- allows OMB both to review and evaluate each Agency's IT spending and to compare IT spending across
- the Federal government.

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2. How do I submit annual, quarterly, and other regular updates of IT budget and management information, and when is it due?

- 175 The Agency's IT budget and management submissions are executed in three distinct components. First,
- the Agency IT Portfolio Summary (formerly Exhibit 53) collects information for all Investments aligned
- to Part 1: Mission Delivery; Part 2: Mission Support Systems; and Part 3: IT Infrastructure, IT Security,
- and IT Management. Second, the Major IT Business Case (formerly Exhibit 300) is used to track the
- planning, budgeting, acquisition, and management of all major Investments aligned to Part 1 and Part 2 of
- the Agency IT Portfolio Summary. Third, Standard Investment Reports for Investments corresponding to
- Part 3 of the Agency IT Portfolio Summary and that require or make available such reports. The
- following table displays the composite budget organization:

Agency IT Portfolio Summary				
Agency IT	Part 1: IT Investments for Mission Delivery			
Investment Portfolio	Part 2: IT Investments for Mission Support			
Summary	Part 3: IT Investments for IT Infrastructure, IT Security, and IT Management			
Agency Bud	get Accounts Summary			

2.1 Annual Reporting

The IT budget and management requirements have varying reporting frequencies. The following table depicts the frequencies of each:

Budget and Management Requirement	Requirement	Reporting Mechanism	Frequency
Trequirement	Agency-Leve	el Reporting	
Budget	IT Resource Statements	MAX, President's Budget and Congressional Justifications	September – Request – and February – within Congressional Justification materials
Budget	eGov/LoB Contributions Verification	MAX Community (Instructions); MAX Collect Exercise	August

Budget and Management Requirement	Requirement	Reporting Mechanism	Frequency
Budget	Budget Accounts Summary	IT Dashboard	September – Request – and January – President's Budget – and February – Congressional Justification
Budget & Management	Submission Confirmation	IT Dashboard	September, January, February Submitted at the end of submission windows
	Investment-Le	evel Reporting	
Budget	FY 2020 Draft Agency IT Investment Portfolio Summary	Details forthcoming	August
Budget	FY 2020 Agency IT Portfolio Summary	IT Dashboard	September – Request – and January – President's Budget – and February – Congressional Justification
Budget & Management	CIO Evaluation Report	IT Dashboard	September, January, February Regular Updates Data should be kept updated
Budget & Management	Systems Inventory	IT Dashboard	September, January, February
Budget & Management	Contracts Report	IT Dashboard	September, January, February Regular Updates Data should be kept updated
Budget & Management	Major Investment Business Case	IT Dashboard	September – Request – and January – President's Budget – and February – Congressional Justification
Management	Major Investment Business Case Details	IT Dashboard	September, January, February Regular Updates Data should be kept updated
Budget & Management	IT Security & Compliance Standard Investment Reports	IT Dashboard	September, January, February Regular Updates Data should be kept updated
Budget & Management	Network Standard Investment Reports	IT Dashboard	September, January, February Regular Updates Data should be kept updated
Budget & Management	Data Center and Cloud Standard Investment Reports	IT Dashboard	September, January, February Regular Updates Data should be kept updated
Budget & Management	End User Standard Investment Reports	IT Dashboard	September, January, February Regular Updates Data should be kept updated
Budget & Management	Optional: Application Standard Investment Reports	IT Dashboard	September, January, February Regular Updates Data should be kept updated

Budget and Management Requirement	Requirement	Reporting Mechanism	Frequency
Budget & Management	Optional: Delivery Standard Investment Reports	IT Dashboard	September, January, February Regular Updates Data should be kept updated

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The following dates satisfy the FY 2020 Capital Planning and Investment Control (CPIC) Requirements:

• August 20, 2018

- o FY 2020 Draft Agency IT Investment Portfolio Summary submission **DUE**;
- Verification that the required E-Gov/LoB contribution levels are being included in the Agency's budget plans.

• September 10, 2018 – September 14, 2018

 FY 2020 Agency IT Portfolio Summary submission (including the Agency IT Investment Portfolio Summary and Agency Budget Accounts Summary);

• September 11, 2018 - September 21, 2018

FY 2020 Systems Inventory, Contracts Report, Major IT Investment Business Case and Standard Investment Reports, IT Resource Statements submissions;

• January 8, 2019 – January 25, 2019 (Tentative)

o FY 2020 President's Budget submissions;

• February 2019 (TBD)

- The Recertification of "IT Resource Statements" should be included in the Agency's Congressional Justification.
- Final FY 2020 Congressional Justification submissions (applicable if there are changes to IT Investments between President's Budget & Agency's development of Congressional Justification materials).

• June 2019 (TBD)

o If applicable, update budget data in line with mid-season MAX lock for enacted budget.

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The Draft Agency IT Investment Portfolio Summary shall be completed by the Agency and submitted to OMB. This draft will constitute the Agency's proposal to OMB, providing a comprehensive list of all IT Investments that will be reported as part of the Agency's FY 2020 IT submission. The initial Draft

212 Agency IT Investment Portfolio Summary shall be posted online to the Draft Agency IT Investment

- 213 Portfolio Summary OMB MAX submission page. At a minimum, the Draft Agency IT Investment
- 214 Portfolio Summary should include the Previous Unique Investment Identifier (UII), Current UII,
- 215 Investment Category, Shared Services Identifier, Part of Agency IT Portfolio Summary, Type of
- 216 Investment, Investment Title, Investment Description, and FEA BRM Services Primary service area.
- 217 Details and instructions for submitting the verification of eGov/LoB are provided online on MAX.
- For the FY 2020 cycle and prior year, annual reporting required a two-step procedure for submissions to
- the IT Dashboard. Beginning in the FY 2020 cycle, the submission procedure will now include
- 220 Submission Confirmation for both the Agency IT Portfolio Summary and the Major IT Business Cases
- and Standard Investment Reports to ensure better consistency across Agency data in submissions.
- 222 Submission of the confirmation for the Agency IT Portfolio Summary will automatically close the
- 223 window for that submission and open the window for Business Case and Standard Investment Report
- submissions. Submission Confirmation for the Business Case and Standard Investment Report
- submissions will also include validation of the data submitted to ensure that all required Business Cases

and Standard Investment Reports have been submitted. The change is illustrated in the figure below:

FY 2019 & Prior Annual Reporting Cycle Validation and Submissions

Submission of Agency IT Portfolio Summary Data & Validation

Submission of Major IT Investment Business Case & Standard Investment Report Data & Validation

FY 2020 Annual Reporting Cycle Validation and Submissions

Submission of Agency IT Portfolio Summary Data & Validation & Submission Confirmation Submission of Major IT Investment Business Case & Standard Investment Report Data & Validation & Submission Confirmation

All subsequent updates to the Agency IT Investment Portfolio Summary will be submitted to the Federal IT Dashboard (ITDB), or as otherwise directed. The Agency IT capital planning office should coordinate and review all versions/revisions of any section/part of the Agency IT Portfolio and Major IT Business Case with the Agency CIO and CFO prior to submitting the approved version to OMB.

Additional updates to the Agency IT Portfolio Summary, Major IT Investment Business Cases, and Standard Investment Reports may be required after final budget decisions or if the Agency requests supplemental funds that require changes to improve reporting accuracy. While data is submitted to the ITDB, public release of FY 2020 IT budget requests will be consistent with the release of President's Budget and an opportunity to update to ensure alignment with Congressional Justification materials. Specific instructions and deadlines for submitting updates, corrections, and final submissions will be published outside of this Guidance. If an Agency requests supplemental funds, approves additional funding, or reallocates funding within its authority and these funding changes result in changes to any part of the Agency IT Portfolio Summary, then the Agency should submit a new or revised Agency IT Portfolio Summary as part of their supplemental request.

With reference to the requirements in Circular A-11, Sec. 51.3, CIOs should, in conjunction with their Agency's budget submissions, provide the common baseline rating demonstrating the level of CFO/CIO collaboration required to fully implement the Federal IT Acquisitions Reform Act (FITARA) as applicable under existing public law. For more information on the reporting requirements for IT Resource Statements, see IT Resource Statements section.

2.2 Regular Updates Reporting

- Updates to the IT Dashboard should be maintained to reflect the most current information available for performance metrics, risks, projects, and/or activities (see Appendix C for a description of major IT Investments and Standard Investments). Frequency of reporting is based on the contents of a given Investment. For example, an Investment with the required monthly performance metric for O&M spending should have monthly performance actuals to report while investments with only Development, Modernization, and Enhancement (DME) spending may be less regular in the updates they have available to submit.
- CIO Evaluation (per 40 U.S.C. § 11315 (c)(2)) should be updated as soon as CIOs have completed their evaluations using the CIO Evaluation Report. There is no mandated reporting frequency; however, at a minimum, OMB expects that CIO evaluations will occur each time a TechStat occurs, a rebaseline is approved by the Agency head (See M-10-27), when the Business Cases are submitted to OMB in the Agency budget request, and when the Business Cases are prepared for the President's Budget release. These ratings are optional for all investments that are not Type 01: Major Investments.

- Contracts Report should be maintained to reflect the most current information available.
 - Agencies should make every effort to maintain current data on the IT Dashboard. When providing updates to the ITDB, OMB expects that updates are provided within 30 days from the corresponding event (e.g., TechStat sessions, baseline changes, CIO evaluations, status change in projects/activities, status change to the risk information, etc.).

3. How is IT spending categorized?

Agencies are required to submit all of their IT budget-related costs to OMB annually. The Agency's complete IT Portfolio must be reported for all Investments, regardless of type, including Type 03 Migration (transition-related activities and planned fee-for-service) or Type 04 Funding Transfer Investments (contributions to shared or centralized IT solutions). Any Federal agency providing the shared or centralized IT service or solutions shall report migration-related costs separately from the spending allocated to maintain operations for current customers. For the FY 2020 President's Budget submission, IT funding levels reported in the Agency IT Portfolio Summary should be consistent with the Agency's budget materials and should be categorized based upon the following three parts:

Category	Description
Part 1. IT Investments for Mission Delivery	Report IT Investments that directly support the delivery of the Agency's mission. This information should map directly to the Agency's strategic and annual performance plan. IT Investments may cover more than one Agency mission area reported in the mission area with oversight over the IT Investment.
Part 2. IT Investments for Mission Support Systems	Mission support services are comprised of activities that are common across all Agencies and include functional areas such as financial management, human resources transactions, contracting, travel, and grants management. Report all Investments for Mission Support Systems specific to an Agency, and IT Investments officially designated as shared or centralized services or solutions, such as E-Gov/ Line of Business (LoB). Appendix B provides a list of existing shared service providers, investments, and E-gov LOBs.
Part 3. IT Investments for IT Infrastructure, IT Security, and IT Management	Report IT Investments for IT goods and services common to all Agencies, such as IT Infrastructure, IT Security, and IT Management. For the FY 2019 submission, Agencies were required to report the two Standard Investments: IT Security and Compliance and IT Management while the Network, Data Center and Cloud, and End User Standard Investments were optional. For the FY 2020 submission, these Standard Investments are now mandatory, and four additional Standard Investments are being rolled out for optional reporting this cycle and mandatory reporting next cycle: Output, Application, Delivery, and Platform. These Investments should be reported at the point of management and thus may be defined at the bureau level and/or by functional components, or at the Agency level if the Investments are managed for the enterprise. Consequently, more than one of the same type of Standard Investment submitted by Agencies may exist, particularly by federated Agencies, that are managing Standard Investments at lower than the enterprise level.

4. If I submitted an Agency IT Portfolio Summary last year, how do I revise it this year?

- 282 If the Agency submitted an Agency IT Portfolio Summary for the FY 2019 Budget, the revised FY 2020
- Agency IT Investment Portfolio Summary data must be compliant with the FY 2020 specified formats or
- 284 it will be rejected. The Agency must note "change in status" for each Investment, as compared to the final
- FY 2019 President's Budget (January 2018 or most recent update). Changes must be identified and
- described in columns twelve (12) and thirteen (13) of the Agency IT Investment Portfolio Summary.
- 287 It is important that the Agency updates its Agency IT Investment Portfolio Summary to reflect current IT
- 288 Investment data. Note that the PY funding should be updated to reflect the FY 2018 budgetary resources
- for the final FY 2020 President's Budget. An OMB Budget Account code for all "Funding Sources" line
- items is required for every Investment.

AGENCY-LEVEL REPORTING 291 292 In an effort to clarify the reporting requirements set forth in this Guidance, OMB is separating the 293 sections based on reporting. The Agency-level reporting sections include the requirements to be submitted 294 only at the Agency's portfolio level and not for individual IT Investments. IT RESOURCE STATEMENTS 295 5. How do I report IT Resource Statements? 296 297 Per the requirements in Circular A-11, Sec. 51.3, CIOs should, in conjunction with their Agency's budget 298 submissions, provide the common baseline rating demonstrating the level of CFO/CIO collaboration 299 required to fully implement the Federal IT Acquisitions Reform Act (FITARA) as applicable under 300 existing public law. 301 For the Agency IT Portfolio Summary, Agencies are also required to post a copy of these certifications, hereby termed their "OMB Budget Justification - IT Resource Statement", to the IT 302 303 Resource Statements (BY 2020) MAX submission page. OMB expects that this copy will be posted on the same date the final Business Case or Standard Investment Report is submitted. 304 305 For the Final FY 2020 President's Budget, Agencies must update and include a copy of the 306 final "IT Resource Statement" in the Agency's public Congressional Justification materials. 307 The IT Resource Statements should include: 308 a. A statement that the CIO collaborated with all component CIOs and the Chief Financial 309 Officer (CFO) on the IT Budget submissions, and that IT includes appropriate estimates of 310 all IT resources included in the budget request/President's Budget. 311 b. A statement from the CIO indicating the extent to which the CIO has reviewed and had 312 significant input in approving IT Investments included in this budget request. For example, if the CIO has reviewed and approved all the Investments from 313 314 Bureau/Component/Operating Division/Mode A, B, and C, but not D, then the statement must identify that the CIO reviewed and approved Investments from 315 Bureau/Component/Operating Division/Mode A, B, and C. 316 317 c. A joint statement from the CFO and CIO identifying the extent to which the CIO had a 318 significant role in reviewing planned IT support for major programs and significant 319 increases and decreases in IT resources reflected in this budget. 320 d. An update of the CIO's common baseline rating for Element D ("D1. CIO reviews and approves major IT Investment portion of budget request") to show whether the desired 321 322 development outcome is: 323 1) Incomplete – Agency has not started development of a plan describing the changes it will make to ensure that all baseline FITARA responsibilities 324 325 are in place. 326 2) Partially Addressed – Agency is working to develop a plan describing the changes it will make to ensure that all baseline FITARA responsibilities 327 328 are in place. 329 3) Fully Implemented – Agency has developed and implemented its plan to 330 ensure that all common baseline FITARA responsibilities are in place. 331 e. The extent to which the CIO can certify the use of incremental development. For example, if the 332 CIO can certify that all the Investments from bureau/component/Operating Division/Mode A, B, 333 and C, but not D, are using incremental development practices then the statement must identify that the CIO certifies that Investments from bureaus/components/Operating Divisions/Modes A, B, 334

and C are using incremental development practices.

AGENCY BUDGET ACCOUNTS SUMMARY

6. How do I report the Agency Budget Accounts Summary?

- 338 The Agency Budget Accounts Summary provides an orientation of IT funding levels associated with
- 339 Budget Accounts/Funding Sources listed for each IT Investment in the Agency IT Investment Portfolio
- 340 Summary. This summary focusing on the Budget Accounts orientation serves as a tool for Agency CIOs
- and CFOs to collaborate and jointly certify the Agency's IT submissions. To support FITARA
- implementation and drive increased CIO authorities, the goal is to increase the IT funding dollar amount
- that the CIO has direct oversight authority over each Budget Account.
- 344 The Agency Budget Accounts Summary is to be completed at the Agency level (NOT at a component
- organization level or at an individual Investment level) for the PY, CY and the BY. It should include all
- budget accounts that fund IT across the entire Agency, comprehensive of all component level
- organizations, for Agency funding only, not the amounts included in contribution funding columns in the
- 348 Agency IT Investment Portfolio Summary. While budget account codes are listed within each IT
- 349 Investment, this table summarizes the total IT funding levels within each account and the CIO's authority
- for each. For the CIO Oversight Authority column, a dollar amount should be entered depicting the
- amount within the budget year that the Agency CIO (not a component-level CIO) has direct oversight
- authority over and decision-making authority over, within the total IT funding level listed for each budget
- account. The amounts should include all funding sources (see the definition of Funding Sources in
- 354 Appendix C) that are spent on IT. The combined Agency total funding for each year in this table should
- be the same as the Agency total funding in the Agency IT Investment Portfolio Summary for the same
- 356 years.

Budget Account Code	CIO Oversight Authority [BY \$M]	Total Agency Funding PY 2018	Total Agency Funding CY 2019	Total Agency Funding BY 2020	Total Agency Funding BY (Budget Authority) 2020

INVESTMENT-LEVEL REPORTING

In an effort to clarify the reporting requirements set forth in this Guidance, OMB is separating the sections based on reporting scale. The reports included in this section are required to be submitted connected to an individual Investment.

Investment reporting requirements vary based on two main factors: Part of Agency IT Portfolio Summary (Column 7 of the Agency IT Portfolio Summary) and Type of Investment (Column 9 of the Agency IT Portfolio Summary). Investment reporting requirements by Part and Type of Investment are detailed in the tables below.

Part 1: IT Investments for Mission Delivery

	Type of Investment			
Guidance Section	1: Major	2: Non-Major	3: Migration	4: Funding Transfer
Agency IT Investment Portfolio	Required	Required	Required	Required
Summary				_
CIO Evaluation Report	Required	Optional	Optional	Optional
Systems Inventory List	Required	Required	Required	Required
Contracts Report	Required	Optional	Optional	Optional
Major IT Business Case	Required	N/A	N/A	N/A
Major IT Business Case Detail	Required	N/A	N/A	N/A

Part 2: IT Investments for Mission Support Systems

	Type of Investment			
Guidance Section	1: Major	2: Non-Major	3: Migration	4: Funding Transfer
Agency IT Investment Portfolio	Required	Required	Required	Required
Summary	_			
CIO Evaluation Report	Required	Optional	Optional	Optional
Systems Inventory List	Required	Required	Required	Required
Contracts Report	Required	Optional	Optional	Optional
Major IT Business Case	Required	N/A	N/A	N/A
Major IT Business Case Detail	Required	N/A	N/A	N/A

Part 3: IT Investments for IT Infrastructure, IT Security, and IT Management

	Type of Investment	
Guidance Section	5: Standard	6: Non-Standard
Agency IT Investment Portfolio	Required	Required
Summary		
CIO Evaluation Report	Optional	Optional
Systems Inventory List	Required	Required
Contracts Report	Required	Required
Major IT Business Case	N/A	Optional
Major IT Business Case Detail	N/A	Optional
Part 3 Standard Investment Report	Required/Optional	N/A

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AGENCY IT INVESTMENT PORTFOLIO SUMMARY

- 371 The President's Budget Agency IT Portfolio Summary is a complete report of all IT resources within the
- 372 Agency. Investment costs are to be provided in millions of dollars (\$M). Reporting to three (3) decimal
- places (precision to thousands of dollars) is recommended, although Agencies may report up to six (6)
- decimal places (whole dollars). For example, \$4,651,123.756 would be represented as \$4.651123.

7. What is the Agency IT Portfolio Summary?

- 376 The Agency IT Portfolio Summary includes all IT resources for the IT Investments from all funding
- 377 sources. This means that for each Investment, the Agency must identify the funding source and budgetary
- resources, including the OMB Budget Account codes, used for the Investment. Agencies should add as
- many funding source line items as are appropriate for the Investment.
- 380 To avoid double counting or under-counting for E-Gov/LoB, Multi-Agency and/or Intra-Agency
- 381 collaboration Investments, or Standard IT Infrastructure, IT Security, and IT Management Investments,
- the total funding source amounts for an Investment must match the Investment line item. To that end, the
- Agency Lead Investment's Agency IT Investment Portfolio Summary should only include funding from
- its own Agency in the "Agency Funding" columns and include funds received from partner Agencies in
- the "Contributions" columns. Likewise, the partner Agency's Agency IT Investment Portfolio Summary
- should include funding that is being transferred to the Agency Lead's Service Management Office (SMO)
- in its own "Agency Funding" columns (using the Investment type: "04-Funding transfer Investments").
- 388 The Major IT Business Case will include all funding (both from the managing partner's "Agency
- Funding" as well as the partner Agency's contributions). As applicable, all investments should report
- 390 Agency funding as well as partner inter/intra-Agency contributions. All budgetary data reported should
- reflect budgetary resources.

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7.1 Budget Account Codes

IT Investments are funded by specific budget accounts assigned to each Agency. Agencies should use the following 10-digit number coding system to update or complete their OMB Budget Account identification code information for IT Investment funding sources:

Entry	Description
XXX-xx-xxxx-x	The first three digits are your Agency code (See: Appendix C of OMB
	<u>Circular No. A-11</u>).
xxx-XX-xxxx-x	The next two digits are your bureau code (See: Appendix C of OMB
	Circular No. A-11).
	Note: The "bureau" code embedded in the OMB account number for a
	funding source might not always refer to a "bureau" as the term is used
	elsewhere.
xxx-xx-XXXX-x	This is a four-digit account code for the OMB budget account, as used by
	the MAX A-11 application where Agency budget offices provide budget
	information for the Budget Appendix. (See: Section 79.2 of OMB Circular
	<u>No. A-11</u>).
xxx-xx-xxxx-X	This is a single-digit Transmittal Code (See: Section 79.2 of OMB Circular
	No. A-11).

7.2 TBM IT Portfolio Reporting

In order to increase utility of the data reported in the IT Portfolio Summary and other submissions, OMB

- 398 is continuing to integrate the TBM IT Cost Pools and IT Towers into this year's Guidance. Where
- 399 Investment spending can be parsed into the IT Cost Pools and Towers, this will provide more granularity
- and ease the eventual transition to the full TBM model. Agencies will begin unwinding total Investment
- 401 amounts into TBM IT Cost Pools and IT Towers in order to begin getting more granular data and driving

- 402 TBM taxonomy adoption. OMB does not expect perfection during FY 2020 submissions. Introducing
- 403 TBM reporting over a phased implementation will start the process to transition to leveraging TBM data
- 404 for the CPIC data in the future.
- 405 All Investments (Part 1, Part 2, and Part 3) shall report IT Cost Pools and IT Tower costs in a phased
- 406 approach. For most Investments, as they begin reporting across all Cost Pools and IT Towers, the sum of
- 407 the IT Towers should match the sum of the Cost Pools and are both expected to match the sum of the
- 408 Investment FY spend total by budgetary resources. This will not be the case in funding transfer and other
- 409 Investments where FY Investment spend total includes spending not at the point of execution.
- 410 For Part 1 and Part 2 Investments, the IT Tower fields are available to indicate the applicable costs
- associated with the IT Towers. OMB is not requiring that IT Tower-related costs be removed from these
- 412 Part 1 and 2 Investments.
- For Part 3 Investments, Agencies have a mixture of Non-Standard and Standard Infrastructure
- 414 Investments.

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- For Non-Standard Infrastructure Investments, the IT Tower fields are available to indicate the applicable costs associated with the IT Towers.
- For Standard Infrastructure Investments, the corresponding IT Tower fields within the investment should constitute the majority of the total standard Investment costs. Other IT Tower fields are available to indicate other applicable costs needed to establish and maintain the IT Tower-defined capability.
- Each Investment identified in the Agency IT Investment Portfolio Summary must have a Unique
- Investment Identifier (UII). The UII is the primary key for understanding the different Investments.

7.3 Standard Components in the IT Portfolio

Column/Field	Description
1	Previous UII [12 digits, required for all legacy Investments] This is the identifier depicting Agency code and unique Investment number used to report the Investment in the previous FY 2019 Agency IT Portfolio Summary submission to OMB. Indicating the UII used for a previous submission allows cross-walk and historical analysis spanning FYs. Previous UII is mandatory, with the exception of new Investments. To indicate consolidations/splits/reorganizations, Agencies should provide more than one entry.
2	Current UII [12-digit primary key for all Investments] The Current UII includes an Agency code and a nine-digit unique identifier. Variable information formerly included in the UII of previous years is not part of the UII primary key. XXX- xxxxxxxxx: The first three digits represent your Agency code (see Appendix C of OMB Circular No. A-11). xxx- XXXXXXXXXXX: The last nine digits serve as the Investment's unique identifier. This identifier should be system-generated and applied at the Agency level. It will allow Agencies up to one billion unique identifiers to associate with IT Investments. Once used, the unique identifier must be retired from use for any future new Investment and should remain unchanged for any continuing Investment that is not split, consolidated, reorganized. If an IT Investment is retired, discontinued, or merged with another IT Investment, the UII persists with that IT Investment.

Column/Field	Description
3	Shared Services Category [2-digit code] (variable element)
	00: Code for all Investments other than those coded "24", "36" or "48."
	24: E-Gov initiatives or an individual Agency's participation in one of the E-
	Gov/LoB initiatives listed in Appendix B.
	36: Shared Service Providers (SSPs) (and their customers) those previously
	designated by Treasury's FIT and OPM's HRLoB as well as any providers
	designated by the USSM. Agency contributions to a shared or centralized
	solution provider or a Multi-Agency (Inter- or Intra-Agency) collaboration
	should use code 24, not code 36.
	48: Any Multi-Agency (Inter- or Intra-Agency) IT collaboration or an
	individual Agency's participation in one of these initiatives, such as use of a
	centralized FOIA portal. This includes shared services not officially designated
	by USSM and excludes E-Gov/LoB initiatives and USSM designated shared
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4	Shared Services Identifier [4-digit code] These four digits are applicable for all Investments with a Shared Services
	These four digits are applicable for all Investments with a Shared Services
	Category of 24, 36 or 48. A code will be specifically assigned for all E-
	Gov/LoB and USSM designated shared services in Appendix B, while Agencies
	should assign their own four-digit unique codes for Multi-Agency initiatives
	using the "48" shared services category. This code represents the same 4-digit
	identifier previously provided in the last nine digits of the UII for Investments
	starting with xxx-99999XXXX.
5	Mission Support Investment Category [2-digit code]
	Mission Support Investment Category [2-digit code]. These two digits indicate
	the category of common Mission Support Investments by Federal Integrated
	Business Framework (FIBF) Service Area(s). All non-mission support
	Investments should use Category 01. Mission Support Investments may select
	more than one code where applicable.
	01: Not Applicable
	02: Financial Management
	03: Human Resources
	04: Procurement
	05: Travel / Transportation
	06: Grants Management
	07: Other
6	Bureau Code [2-digit code] (variable element)
	The two digits indicate the bureau code of the Investment (see Appendix C of
	OMB Circular No. A-11). If this is a department-level or an Agency-wide
	activity, use "00" as your bureau code.
	<i>Note:</i> This field refers to the bureau with management responsibility for the IT
	Investment, which may differ from the "bureau" code embedded in OMB
	budget accounts used when providing funding sources.
7	Part of Agency IT Portfolio Summary [2-digit code] (variable element)
,	These two digits indicate one of the three parts of the Agency IT Portfolio
	Summary, to which the Investment belongs:
	01: Part 1. IT Investments for Mission Delivery
	02: Part 2. IT Investments for Mission Support Systems
	03: Part 3. IT Investments for IT Infrastructure, IT Security, and IT
	Management

Column/Field	Description
8	Standard IT Infrastructure and Management Category [2-digit code]
	These two digits indicate the sub-category of Investments identified as Part 3:
	IT Investments for IT Infrastructure, IT Security, and IT Management. For FY
	2020, the three previous optional Standard Investments Network, End User, and
	Data Center and Cloud will now be required. Four additional standard
	Investments are being introduced as optional for FY 2020, including Output,
	Application, Delivery, and Platform. Agencies are encouraged to begin re-
	aligning Part 3 costs based upon these standard Investments. All other Part 3
	Investments should use Category 01, which will represent Non-Standard
	Infrastructure Investments.
	01: Not Applicable
	02: IT Security and Compliance
	03: IT Management
	04: Network
	05: Data Center and Cloud
	06: End User
	07: Output
	08: Application
	09: Delivery
	10: Platform
9	Mission Delivery and Management Support Area [2-digit code] (variable
	element)
	These two digits indicate the mission delivery and management support areas.
	Agencies should assign a unique code for each mission delivery and
	management support area reported. Agencies shall provide a reference table for
	mission areas via email to include:
	o Agency Code [3-digits]
	o Mission Delivery and Management Support Area [2-digit code]
	o Description [500 characters]

Column/Field	Description
10	Type of Investment [2-digit code] (variable element)
	These two digits indicate the type of Investment being reported as follows:
	01: Major IT Investments
	02: Non-major IT Investments
	03: IT Migration Investment: The portion of a larger asset and for which there is an existing Business Case for the overall asset. The description of the IT
	Investment should indicate the UII of the major asset Investment of the managing partner.
	04: Funding Transfer Investments: These are primarily used to indicate the partner contribution to a Lead Agency Investment through inter- or intra-
	Agency transfers. The description of the IT Investment should indicate the UII of the Lead Agency's Investment.
	05: Standard IT Infrastructure Investments in Part 3: IT Infrastructure, IT
	·
	Security, IT Management Investments (IT Security and Compliance, IT Management, Network, Data Center and Cloud, End User, Output, Application,
	Delivery, and Platform).
	06: Non-Standard Infrastructure Investments in Part 3: IT Infrastructure, IT
	Security, IT Management Investments: These investments should report as 01:
	Not Applicable under the Standard IT Infrastructure and Management Category
	(Field 8). Agencies may downgrade a "Major" Part 3 Investment to "06: Non-
	Standard Infrastructure Investment" provided that they have disaggregated to
	the greatest extent practical through the use of the other "Standard
	Investments". Additionally, agencies may not have the capacity or the maturity
	to deliver all of the available Standard Investment reporting identified in the
	prior sections of this guidance. For those instances in which there is an
	organization that isn't prepared to report the standard Investments, Agencies
	should consider leveraging the Non-Standard Infrastructure Investment to build
4.4	up the competence and maturity.
11	National Security Systems Identifier [2-digit code]
	These two digits indicate whether the Investment is a National Security System
	per the Federal Information Security Management Act of 2002 (FISMA), 44
	U.S.C. 3542(b)(2) as follows:
	01: Non-National Security System Investment
	02: National Security System Investment (these investments will not be
	publicly viewable on the IT Dashboard)
12	Line Item Descriptor [2-digit code] (variable element)
	These two digits identify the nature of the "line item" in the Agency IT
	Portfolio Summary structure. The digits represent the line number in both the
	XML format used for Agencies on the ITDB and the line number in an
	equivalent spreadsheet file (CSV or XLS file), for Agencies not on the ITDB, as
	follows:
	00: Total Investment title line, structurally the first line for reporting this
	particular Investment
	04: Funding source or appropriation
	09: Any subtotal

Column/Field	Description
13	Change in Investment Status Identifier [2-digit code]
	This is used when an Investment has a change in status (e.g., downgraded to
	non-major IT Investment, eliminated, retired, consolidated, split) for the current
	budget submission relative to the previous budget cycle. The change of status
	should be indicated with one of the following reasons:
	01: Upgraded from non-major to major IT Investment
	02: Downgraded from major to non-major IT Investment
	03: Split into multiple Investments
	04: Consolidation of Investments
	05: Reorganization
	06: Eliminated by funding
	07: Eliminated by split
	08: Eliminated by consolidation
	09: Eliminated by reorganization
	10: New
	11: No Change in Status
	Note: For any new Standard IT Infrastructure, Security, and Management
	Investment, use Change in Investment Status Identifier 05 (Reorganization).
	Investments that have been split (Change in Investment Status Identifier 3) must
	be included in the Agency IT Portfolio Summary, with new UIIs in the Current
	UII field. Investments that have been consolidated (Change in Investment
	Status Identifier 4) must include their Previous UII in column 1.
14	Agency Description of Change in Investment Status [255 char max]
	This is used when an indicator has been chosen for "Change in Investment
	Status Identifier" in order to provide a description of the rationale for the
	change, which may include impacted UIIs, specific references to legislative
	requirements, or governance board decisions and effective dates.
15	Investment Title
	This is a text field to provide the Investment title. To the extent that they are not
	part of the name used by the Agency, other identifiers such as bureaus or other
	numeric codes should not be included as part of an Investment title.
16	Investment Description [500 char max]
10	This is a short public-facing description for each Investment. This description
	should explain the purpose of the Investment and what program(s) it supports,
	including the value to the public. The description should be understandable to
	someone who is not an expert of the Agency. If the Investment is part of a
	Multi-Agency initiative or another Business Case, the Agency should describe
	where that Business Case is located in the appropriate Agency budget
	submission (e.g., Agency Lead Investment's UII). For example, if the
	Investment represents the Agency's participation in an E-Gov or Shared Service
	initiative, the description should state this information and refer to the Current
17	UII of the managing partner's Business Case. FFA RPM Services Primary service area [3 digit code]
1/	FEA BRM Services – Primary service area [3-digit code] This is the three (2) digit code that indicates the prodominant hydrogen function
	This is the three (3) -digit code that indicates the predominant business function
	served by the Investment (not necessarily the Agency's mission/business).
10	BRM version 3.1 contains the current mapping codes.
18	DME PY Agency Funding (PY/2018) [\$M]
	This should indicate FY 2018 amount. See definition of DME in Appendix C.

Column/Field	Description
19	DME PY Contributions (PY/2018) [\$M]
	This should indicate the FY 2018 amount contributed from other Agencies. See
	definition of DME in Appendix C. For Funding Transfer Investments
	(Investment Type "04"), this field should be 0.
20	DME CY Agency Funding (CY/2019) [\$M]
	This should indicate FY 2018 amount. See definition of DME in Appendix C.
21	DME CY Contributions (CY/2019) [\$M]
	This should indicate the FY 2019 amount contributed from other Agencies. See
	definition of DME in Appendix C. For Funding Transfer Investments
	(Investment Type "04"), this field should be 0.
22	DME BY Agency Funding (BY/2020) [\$M]
	This should indicate FY 2020 amount. See definition of DME in Appendix C.
23	DME BY Contributions (BY/2020) [\$M]
	This should indicate the FY 2020 amount contributed from other Agencies. See
	definition of DME in Appendix C. For Funding Transfer Investments
	(Investment Type "04"), this field should be 0.
24	DME BY (Budget Authority) Agency Funding (BY/2020) [\$M]
	This should indicate FY 2020 amount. See definition of DME in Appendix C.
25	O&M PY Agency Funding (PY/2018) [\$M]
	This should indicate FY 2018 amount. See definition of O&M in Appendix C.
26	O&M PY Contributions (PY/2018) [\$M]
	This should indicate the FY 2018 amount contributed from other Agencies. See
	definition of O&M in Appendix C. For Funding Transfer Investments
	(Investment Type "04"), this field should be 0.
27	O&M CY Agency Funding (CY/2019) [\$M]
	This should indicate FY 2019 amount. See definition of O&M in Appendix C.
28	O&M CY Contributions (CY/2019) [\$M]
	This should indicate the FY 2019 amount contributed from other Agencies. See
	definition of O&M in Appendix C. For Funding Transfer Investments
	(Investment Type "04"), this field should be 0.
29	O&M BY Agency Funding (BY/2020) [\$M]
	This should indicate FY 2020 amount. See definition of O&M in Appendix C.
30	O&M BY Contributions (BY/2020) [\$M]
	This should indicate the FY 2020 amount contributed from other Agencies. See
	definition of O&M in Appendix C. For Funding Transfer Investments
	(Investment Type "04"), this field should be 0.
31	O&M BY (Budget Authority) Agency Funding (BY/2020) [\$M]
	This should indicate FY 2020 amount. See definition of DME in Appendix C.
32	Functional/Business Sponsor Name
	The Functional/Business Sponsor is defined in Appendix C, and provides
	visibility for Agencies and OMB as to who the sponsor is for each Investment
	within the IT portfolio.
33	Functional/Business Sponsor Title
	Indicate the title of the Functional/Business Sponsor.
34	Cloud Computing Alternatives Evaluation [one-digit code]
	This specifies whether, as of the date of the submission, the Investment, or a
	component of the Investment, is leveraging, considering, migrating or posing as
	a candidate for cloud computing. All Investments should answer this question
	regardless of the overall life cycle stage of the Investment, as operational

Column/Field	Description
	Investments should consider cloud computing alternatives during or as a result
	of an operational analysis. Select one of the following answers:
	1. This Investment or a portion of this Investment is leveraging cloud
	computing.
	2. This Investment is migrating to the cloud.
	3. This Investment is considering cloud computing.
	4. Cloud computing has NOT been considered.
	5. Cloud computing is NOT applicable for any portion of this Investment.
	6. Cloud computing has been considered but was not selected.
	Note: For Funding Transfer Investments (Investment Type "04"), this field does
	not need to be completed.
35	Data Center Inventory ID
	The unique identifier (or list of the identifiers) for relevant data centers from
	your agency's data center inventory, which is submitted to OMB on a quarterly
	basis in conjunction with the Integrated Data Collection (IDC). To be put in
	contact with your agency's IDC submitters and obtain a list of your agency's
	correct "Data Center IDs", email DataPointSupport@omb.eop.gov .
36	Total Cloud (PaaS/IaaS) Amount (CY/2019) [\$M]
	This should indicate the CY amounts associated with Platform as a Service
	(PaaS) and Infrastructure as a Service (IaaS) cloud service offerings for this
	Investment. Previously this was asked for in the Agency Provisioned IT
	Services Spending Summary, which has been eliminated.
37	Total Cloud (SaaS) Amount (CY/2019) [\$M]
	This should indicate the CY amounts associated with Software as a Service
	(SaaS) cloud service offerings for this Investment. Previously this was asked for
	in the Agency Provisioned IT Services Spending Summary, which has been
	eliminated.
38	Total Other Managed Services (non-cloud) Amount (CY/2019) [\$M]
	This should indicate the CY amounts associated with non-cloud managed
	services service offerings. Previously this was asked for in the Agency
	Provisioned IT Services Spending Summary, which has been eliminated.

7.4 IT Cost Pools

Columns 39-65 include the IT Cost Pools from the TBM Taxonomy. Definitions are provided in Appendix D. The only cost pool data that is required in the FY 2020 submission year is Total Internal Labor, as that data is related to the FTE amounts that have been captured in the CPIC budget submissions for many years. While the TBM definition of Internal Labor includes more than just Government FTE costs, Agencies can simply include these Government FTE costs. Reporting all applicable IT Cost Pools is encouraged for Agencies that can, and OMB acknowledges that Investments will likely not have amounts associated with all IT Cost Pools. This applies to all Investments, Major, Non-Major, and IT Infrastructure, IT Security, and IT Management. Definitions are included in Appendix D: TBM Cost Pool and IT Tower definitions.

Column/Field	Description
39	Cost Pool: Total Internal Labor (formerly Government FTE) Amount
	(PY/2018) [\$M] [Required for FY 2020 reporting, if applicable]
	This is the total PY amount for Internal Labor as defined by Appendix D.
40	Cost Pool: Total Internal Labor (Government FTE) Amount (CY/2019) [\$M]
	[Required for FY 2020 reporting, if applicable]
	This is the total CY amount for Internal Labor as defined by Appendix D.

Column/Field	Description
41	Cost Pool: Total Internal Labor (Government FTE) Amount (BY/2020) [\$M]
	[Required for FY 2020 reporting, if applicable]
	This is the total BY amount for Internal Labor as defined by Appendix D.
42	Cost Pool: Total External Labor Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for External Labor as defined by Appendix D.
43	Cost Pool: Total External Labor Amount (CY/2019) [\$M] [Optional]
	This is the total CY amount for External Labor as defined by Appendix D.
44	Cost Pool: Total External Labor Amount (BY/2020) [\$M] [Optional]
	This is the total BY amount for External Labor as defined by Appendix D.
45	Cost Pool: Total Outside Services Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for Outside Services as defined by Appendix D.
46	Cost Pool: Total Outside Services Amount (CY/2019) [\$M] [Optional]
	This is the total CY amount for Outside Services as defined by Appendix D.
47	Cost Pool: Total Outside Services Amount (BY/2020) [\$M] [Optional]
	This is the total BY amount for Outside Services as defined by Appendix D.
48	Cost Pool: Total Hardware Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for Hardware as defined by Appendix D.
49	Cost Pool: Total Hardware Amount (CY/2019) [\$M] [Optional]
	This is the total CY amount for Hardware as defined by Appendix D.
50	Cost Pool: Total Hardware Amount (BY/2020) [\$M] [Optional]
	This is the total BY amount for Hardware as defined by Appendix D.
51	Cost Pool: Total Software Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for Software as defined by Appendix D.
52	Cost Pool: Total Software Amount (CY/2019) [\$M] [Optional]
	This is the total CY amount for Software as defined by Appendix D.
53	Cost Pool: Total Software Amount (BY/2020) [\$M] [Optional]
	This is the total BY amount for Software as defined by Appendix D.
54	Cost Pool: Total Facilities and Power Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for Facilities and Power as defined by Appendix D.
55	Cost Pool: Total Facilities and Power Amount (CY/2019) [\$M] [Optional]
	This is the total CY amount for Facilities and Power as defined by Appendix D.
56	Cost Pool: Total Facilities and Power Amount (BY/2020) [\$M] [Optional]
	This is the total BY amount for Facilities and Power as defined by Appendix D.
57	Cost Pool: Total Telecom Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for Telecom as defined by Appendix D.
58	Cost Pool: Total Telecom Amount (CY/2019) [\$M] [Optional]
	This is the total CY amount for Telecom as defined by Appendix D.
59	Cost Pool: Total Telecom Amount (BY/2020) [\$M] [Optional]
	This is the total BY amount for Telecom as defined by Appendix D.
60	Cost Pool: Total Other Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for Other as defined by Appendix D.
61	Cost Pool: Total Other Amount (CY/2019) [\$M] [Optional]
	This is the total CY amount for Other as defined by Appendix D.
62	Cost Pool: Total Other Amount (BY/2020) [\$M] [Optional]
	This is the total BY amount for Other as defined by Appendix D.

Column/Field	Description
63	Cost Pool: Total Internal Services Amount (PY/2018) [\$M] [Optional]
	This is the total PY amount for Internal Services as defined by Appendix D.
	Only Type 04 Funding Transfer Investments should report amounts within the
	Internal Services Cost Pool.
64	Cost Pool: Total Internal Services Amount (CY/2019) [\$M] [Optional]
	This is the total PY amount for Internal Services as defined by Appendix D.
	Only Type 04 Funding Transfer Investments should report amounts within the
	Internal Services Cost Pool.
65	Cost Pool: Total Internal Services Amount (BY/2020) [\$M] [Optional]
	This is the total PY amount for Internal Services as defined by Appendix D.
	Only Type 04 Funding Transfer Investments should report amounts within the
	Internal Services Cost Pool.

7.5 IT Towers

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435 Columns 66-98 represent the TBM IT Towers. "IT Towers and sub-Towers are the basic building blocks 436

of services and applications. Examples include compute (e.g., servers, Unix, mainframe), network,

application (e.g., app dev, app support and maintenance) and IT management. They are sometimes called 437

438 domains or functions." Definitions are included in Appendix D: TBM Cost Pool and IT Tower

439 definitions. This applies to all Investments; major, non-major, and standard IT Infrastructure, IT Security,

440 and IT Management.

Column/Field	Description
66	IT Tower: Total IT Security and Compliance Amount (PY/2018) [\$M]
	[Required, if applicable]
	This is the total PY amount for IT Security and Compliance as defined by
	Appendix D.
67	IT Tower: Total IT Security and Compliance Amount (CY/2019) [\$M]
	[Required, if applicable]
	This is the total CY amount for IT Security and Compliance as defined by
	Appendix D.
68	IT Tower: Total IT Security and Compliance Amount (BY/2020) [\$M]
	[Required, if applicable]
	This is the total BY amount for IT Security and Compliance as defined by
	Appendix D.
69	IT Tower: Total IT Management Amount (PY/2018) [\$M] [Required, if
	applicable]
	This is the total PY amount for IT Management as defined by Appendix D.
70	IT Tower: Total IT Management Amount (CY/2019) [\$M] [Required, if
	applicable]
	This is the total CY amount for IT Management as defined by Appendix D.
71	IT Tower: Total IT Management Amount (BY/2020) [\$M] [Required, if
	applicable]
	This is the total BY amount for IT Management as defined by Appendix D.
72	IT Tower: Total Network Amount (PY/2018) [\$M] [Required, if applicable]
	This is the total PY amount for Network as defined by Appendix D.

² Technology Business Management Council, TBM Taxonomy Version 2.1, March 1, 2018

Column/Field	Description
73	IT Tower: Total Network Amount (CY/2019) [\$M] [Required, if applicable]
	This is the total CY amount for Network as defined by Appendix D.
74	IT Tower: Total Network Amount (BY/2020) [\$M] [Required, if applicable]
	This is the total BY amount for Network as defined by Appendix D.
75	IT Tower: Total Data Center Amount (PY/2018) [\$M] [Required, if
	applicable]
	This is the total PY amount for Data Center as defined by Appendix D.
76	IT Tower: Total Data Center Amount (CY/2019) [\$M] [Required, if
	applicable]
	This is the total CY amount for Data Center as defined by Appendix D.
77	IT Tower: Total Data Center Amount (BY/2020) [\$M] [Required, if
	applicable]
	This is the total BY amount for Data Center as defined by Appendix D.
78	IT Tower: Total Compute Amount (PY/2018) [\$M] [Required, if applicable]
	This is the total PY amount for Compute as defined by Appendix D.
79	IT Tower: Total Compute Amount (CY/2019) [\$M] [Required, if applicable]
	This is the total CY amount for Compute as defined by Appendix D.
80	IT Tower: Total Compute Amount (BY/2020) [\$M] [Required, if applicable]
	This is the total BY amount for Compute as defined by Appendix D.
81	IT Tower: Total Storage Amount (PY/2018) [\$M] [Required, if applicable]
	This is the total PY amount for Storage as defined by Appendix D.
82	IT Tower: Total Storage Amount (CY/2019) [\$M] [Required, if applicable]
	This is the total CY amount for Storage as defined by Appendix D.
83	IT Tower: Total Storage Amount (BY/2020) [\$M] [Required, if applicable]
	This is the total BY amount for Storage as defined by Appendix D.
84	IT Tower: Total End User Amount (PY/2018) [\$M] [Required, if applicable]
	This is the total PY amount for End User as defined by Appendix D.
85	IT Tower: Total End User Amount (CY/2019) [\$M] [Required, if applicable]
	This is the total CY amount for End User as defined by Appendix D.
86	IT Tower: Total End User Amount (BY/2020) [\$M] [Required, if applicable]
	This is the total BY amount for End User as defined by Appendix D.
87	IT Tower: Total Output Amount (PY/2018) [\$M] [Required, if applicable]
	This is the total PY amount for Output as defined by Appendix D.
88	IT Tower: Total Output Amount (CY/2019) [\$M] [Required, if applicable]
	This is the total CY amount for Output as defined by Appendix D.
89	IT Tower: Total Output Amount (BY/2020) [\$M] [Required, if applicable]
	This is the total BY amount for Output as defined by Appendix D.
90	IT Tower: Total Application Amount (PY/2018) [\$M] [Required, if
	applicable]
	This is the total PY amount for Application as defined by Appendix D.
91	IT Tower: Total Application Amount (CY/2019) [\$M] [Required, if
	applicable]
	This is the total PY amount for Application as defined by Appendix D.
92	IT Tower: Total Application Amount (BY/2020) [\$M] [Required, if
	applicable]
	This is the total BY amount for Application as defined by Appendix D.

Column/Field	Description
93	IT Tower: Total Delivery Amount (PY/2018) [\$M] [Required, if applicable]
	This is the total PY amount for Delivery as defined by Appendix D.
94	IT Tower: Total Delivery Amount (CY/2019) [\$M] [Required, if applicable]
	This is the total CY amount for Delivery as defined by Appendix D.
95	IT Tower: Total Delivery Amount (BY/2020) [\$M] [Required, if applicable]
	This is the total BY amount for Delivery as defined by Appendix D.
96	IT Tower: Total Platform Amount (PY/2018) [\$M] [Required, if applicable]
	This is the total PY amount for Platform as defined by Appendix D.
97	IT Tower: Total Platform Amount (CY/2019) [\$M] [Required, if applicable]
	This is the total CY amount for Platform as defined by Appendix D.
98	IT Tower: Total Platform Amount (BY/2020) [\$M] [Required, if applicable]
	This is the total BY amount for Platform as defined by Appendix D.

CIO EVALUATION REPORT

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8. What is the CIO Evaluation?

- 444 Provide CIO numeric evaluation (1-5) for all Part 1 and Part 2 major IT Investments that reflect the CIO's
- best judgment of the current level of risk for the Investment in terms of its ability to accomplish its goals
- 446 (per 40 U.S.C. § 11315 (c)(2)). The evaluation could be informed by the following factors, including but
- not limited to: risk management, requirements management, contractor oversight, historical performance,
- human capital, and other factors that the CIO deems important to forecasting future success. CIOs should
- consult with appropriate stakeholders (e.g., Chief Acquisition Officers, chief management officers,
- 450 program managers, customers, etc.) in making their evaluation. Each evaluation should include a
- arrative explanation when the numerical rating has changed since the last evaluation; and a numeric
- rating based on the aforementioned factors.
- 453 While CIOs have authority and responsibility over the entire IT portfolio, OMB is only requiring CIO
- evaluations for major IT Investments that relate to Mission and Administrative Services and Mission
- Support Systems Investments (Part 1 and Part 2 of the Agency IT Portfolio Summary). OMB is not
- requiring CIO evaluations for Part 3: IT Infrastructure, IT Security, and IT Management Investments as
- 457 these reflect a new requirement and level of effort for Agencies to re-work their Investment portfolio.
- 458 Agencies may elect to provide CIO Evaluations for Part 3 Investments at their discretion.
- 459 The following factors and supporting examples can be used to inform the CIO Evaluation:

Evaluation Factor	Supporting Examples
Risk Management	 Risks and associated impact are well understood by senior leadership. Risk log is current and complete. Risks are clearly prioritized. Risk response plans are in place to manage risks. Change control is established and communicated to all stakeholders (especially with system and process dependencies). Note: Risk management implies that active risks are being managed and mitigated accordingly. Active risks include, but are not limited to funding cuts and staffing changes.
Requirements/Outcomes Management	 Product delivery horizons are small in duration and cost. Investment objectives are clear and scope is controlled. Outcomes and/or requirements are clear and validated. Stakeholders are actively involved in the requirements process per appropriate methodology. Product backlog is prioritized periodically based on recent release and stakeholder feedback.
Contractor Oversight	 Acquisition strategy is defined and managed via an Integrated Program/Project Team, which includes all the relevant disciplines. Accountable oversight official (e.g., COR, PM, etc.) receives key deliverables and reports, such as current status and risk logs. Designated officials are providing appropriate management of contractors such that the government is monitoring, controlling, and mitigating the impact of any adverse contract performance. Product demos are conducted and reviewed to ensure stakeholder requirements are being met throughout the systems development process.
Performance	 No significant projected deviations from planned cost, schedule, scope, cost savings/return on Investment, and value of the Investment metrics.

Evaluation Factor	Supporting Examples	
	 Lessons learned and best practices are incorporated and adopted. 	
Human Capital	 Qualified management and execution team for the IT Investments and/o contracts supporting the Investment. 	
	 Low turnover rate and hiring contingency in place. 	
Other	 Other factors that the CIO deems important to forecasting future 	
	success.	

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The Agency CIO rates each investment based on his or her best judgment, using a set of pre-established criteria. As a rule, the Evaluation should reflect the CIO's assessment of the risk and the Investment's ability to accomplish its goals. CIOs should consult with appropriate stakeholders in making their evaluation, such as Chief Acquisition Officers, program managers, etc. Evaluation ratings are scored on a five-point risk scale, as follows:

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Evaluation (By Agency CIO)	Color
5 – Low Risk	Green
4 – Moderately Low Risk	Green
3 – Medium Risk	Yellow
2 – Moderately High Risk	Red
1 – High Risk	Red

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The following fields will comprise the CIO Evaluation Report:

Column /Field	Description
1	UII [12-digit primary key for all Investments]
2	CIO Rating
3	CIO Comments

SYSTEMS INVENTORY LIST

9. What is the Systems Inventory?

- 471 Agencies should report all Information Systems (see: Appendix C) funded by this Investment in the
- following tables. For shared services, only the Lead Agency Investment should report the relevant
- system(s). For purposes of reporting in this table, only include systems currently in operation (i.e., post-
- deployment). An information system may include multiple products. An information system may be
- reported for more than one investment, if applicable.

Section A: General Information	
Column /Field	Description
1	UII [12-digit primary key for all Investments]

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Section B: Systems Inventory

- *Note:* Responses to this field are per FISMA definitions. For Systems Table B.1 below, report each
- 478 System or Sub-System funded by the Investment.

	Systems Table B.1
Field	Data Description
System Name	[250 char max] Agency internal name (e.g., Delphi,
	HUDCaps, AGMAX, etc.)
Average # of users per month	[10-digit integer]
Initial Operating Year	[YYYY]

For Product Table B.2 below, report the following data for every product of each system reported in Systems Inventory Table B.1. Systems may have one or more products.

Product Table B.2	
Field	Data Description
System Name	[250 char max] Agency internal name (e.g., Delphi,
	HUDCaps, AGMAX, etc.)
Product Name	[250 char max] Indicate the official vendor name (e.g.,
	Enterprise Business Suite, Momentum, HCM) or enter
	"N/A" if the system was custom developed internally within
	the Agency
Vendor Name	[250 char max] Indicate the official vendor name (e.g.,
	Oracle, SAP, CGI, GSA) for the specific product (i.e., non-
	integrated services) or enter "N/A" if the system was custom
	developed internally within the Agency
Version Number	[10 char max] Indicate the Product Name version number to
	at least the first minor version digit (e.g., 12.1, 9.2, etc.) or
	enter "N/A" if the system was custom developed internally
	within the Agency
Last Major Tech Refresh Date	[MM-YYYY] Provide the date that the product last had a
	major refreshment, replacement, or addition of hardware or
	software (not patching).
Anticipated Major Tech Refresh Date	[MM-YYYY] Provide, if applicable, the anticipated date that
	the product will have its next major refreshment,
	replacement or addition of hardware or software (not
	patching).
End of Contracted Support	[MM-YYYY] Final day of the period of performance for

	Product Table B.2
	product operations support, may enter "N/A" if no contracted support is maintained for this system.
Product Expected End of Life	[MM-YYYY or N/A] If there is no planned end of life, enter "N/A". End of Life represents the date on which the vendor is no longer providing regular support (extended support for a software version for example is outside of the expected end of life) for a solution, or the original manufacturer is no longer manufacturing parts.
Product Function(s)	[7 digit code for each function] Provide all relevant service area functions associated with this product as defined by the <u>Federal Integrated Business Framework (FIBF)</u> , e.g., "FFM.010".

CONTRACTS REPORT

10. What is the Contracts Report?

- The Contracts Report contains all contracts for an Investment and is collected in accordance with OMB's
- strategy to align Investment data with FPDS data in order to facilitate Agency and OMB engagement
- around critical points in contract or acquisition management.
- For all Type 01 Major and Part 3 IT Investments for IT Infrastructure, IT Security, and IT Management,
- 488 the Contracts Report is required, if applicable. Investments should update these fields regularly
- throughout the reporting cycle.

Section A: General Information	
Column /Field	Description
1	UII [12-digit primary key for all Investments]

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Section B: Contracts/Acquisitions	
Column/Field	Description
1	Procurement Instrument Identifier (PIID) or Reference PIID
	The unique identifier for each contract, agreement, or order associated with this
	Investment (Federal Procurement Data Systems (FPDS) data element 1A). Enter PIID
	numbers for contacts, agreements, or orders both that have already been awarded or
	are in the pre-award stage. Completed and/or expired contracts do not need to be
	included. Data definitions can be found at <u>Federal Procurement Data System</u> .
	This field is required only for Major IT Investments and Part 3 Investments. Agencies
	should provide as many entries as applicable. [PIID/Reference PIID by
	number/character as submitted to FPDS]
2	Planned Acquisitions
	Indicate whether the Investment is planning to award a new or renew an expiring
	contract in the next 12 months.
	This field is required only for Major IT Investments and Part 3 Investments.
	[Yes, No]

MAJOR IT BUSINESS CASE

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493 11. What is the Major IT Business Case?

- The Major IT Business Case is one component of the Agency's total budget justification (see Section 51.2
- of OMB Circular No. A-11). OMB uses data reported in the Major IT Business Case to make quantitative
- decisions about budgetary resources consistent with the Administration's program priorities as well as
- 497 qualitative assessments about whether the Agency's programming processes are consistent with OMB
- 498 policies and guidance. OMB may request additional supporting information from Agencies as necessary.
- 499 OMB provides specific policy, procedural, and analytic guidelines for planning, budgeting, acquisition,
- and management of major IT capital Investments in addition to general guidance issued in OMB Circular
- No. A-11 and OMB Circular No. A-130.
- 502 The Agency IT Portfolio Summary and Major IT Business Cases (including Business Case and Business
- Case Detail) describe the justification, planning, and implementation of an individual capital asset
- included in the Agency IT Portfolio Summary and serve as key artifacts of the Agency's Enterprise
- 505 Architecture (EA) and CPIC processes.
- In keeping with the FY 2019 cycle, Business Cases are only required for Part 1 and Part 2 major IT
- 507 Investments. OMB will not be requiring Part 3 Investments to complete Business Cases due to the level
- of effort required to transition to a new Standard Investment structure and Standard Investment Reports
- 509 intended to collect relevant information for specific types of commodity IT. Agencies may elect to submit
- Business Cases for Part 3 Non-Standard Investments at their discretion.
- Together, the Major IT Business Case and Major IT Business Case Details provide the budgetary and
- management information necessary for sound planning, management, and governance of major IT
- 513 Investments. These documents help Agencies explicitly align IT Investments with strategic and
- performance goals, and ultimately provide value to the public by making Investment and management
- 515 information more transparent. As architecture-driven IT Investments are funded in the "Select" CPIC
- 516 phase, the Investments move forward into the implementation phase. The system development life cycle
- 517 processes are then followed and actual outputs, schedule, and operational performance expenditures are
- tracked against planned numbers using performance-based management processes as part of the CPIC
- 519 "Control" Phase.

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520 11.1 How will Agencies manage IT capital assets/Investments?

- There are three primary OMB Circulars that describe the complete set of requirements regarding the management of IT resources.
 - 1. The <u>Capital Programming Guide</u> of OMB Circular No. A-11 provides guidance on the principles and techniques for effective capital programming.
 - 2. OMB Circular No. A-11, Appendix J explains the principles of financing capital asset acquisitions.
 - 3. OMB Circular No. A-130 establishes additional requirements for EAs, planning and control of information systems and IT Investments, IT Governance, and performance management.
- These requirements include, but are not limited to, the following objectives of the CPIC processes for their portfolio of IT resources:
 - Implement the strategies and requirements of and manage the full scope of decisions related to all Agencies' IT described in FITARA, Title VIII Subtitle D of the National Defense Authorization Act (NDAA) for Fiscal Year 2015, Pub. L. No. 113-291.
 - Ensure that the planning and management of Agency IT resources fully implement the requirements of OMB Circular No. A-130, "Management of Federal Information Resources."
 - Ensure that covered Agencies shall continue to provide information to the ITDB, as detailed

within this Guidance, which is issued annually in conjunction with the release of <u>OMB Circular A-11</u>. As a part of that guidance, Agency engagements including PortfolioStat, Agency Strategic Reviews, OMB and/or Agency-led TechStat reviews, and Desk Officer Reviews will be used to meet FITARA requirements. Per OMB M-15-14:

- TechStat Sessions A TechStat is a face-to-face, evidence-based accountability review of an IT program with Agency leadership. TechStat sessions are a tool for getting ahead of critical problems in an Investment, turning around underperforming Investments, or terminating Investments if appropriate. For all Agency-led TechStat reviews of Investments, the Agency shall contact ofcio@omb.eop.gov with the subject line, "[Agency Acronym] TechStat Notification," at least two weeks ahead of the TechStat session. Agencies shall follow the Agency's TechStat policy and procedures based on the CIO.gov TechStat Toolkit when managing TechStat sessions. Agencies shall report the outcomes and outputs of all TechStat sessions to the quarterly Integrated Data Collection (IDC) process, per FITARA these should include:
 - the root causes of the high level of risk of the investment;
 - the extent to which these causes can be addressed; and
 - the probability of future success

- Evaluate and select capital assets that will support core mission functions performed by the Federal Government and that demonstrate projected returns on Investment that are clearly equal to or better than alternative uses of available public resources. The Investments should be informed by and address performance gaps and goals identified in an Agency's strategic plan, annual performance plan, EA implementation Roadmap, and IT asset inventory.
- Initiate improvement to existing assets or acquisition of new assets only after considering
 alternative governmental source or private sector solutions. Agencies shall maintain an up-to-date
 comprehensive inventory of all IT systems, IT hardware and software assets at the Agency,
 bureau and program levels that includes details on the product, vendor, and version types.
- Assign an Agency functional/business sponsor (separate from the PM) for each Investment who
 is responsible for the program or function supported or implemented by the Investment. The
 sponsor is responsible for expressing the value of, ensuring successful implementation of, and
 providing accurate and timely data for the IT Investment to the Agency CIO and OMB. Each
 major and non-major IT Investment listed in Agency IT Portfolio Summary must include the
 name of the functional/business sponsor name and title.
- Encourage iterative (e.g., agile) development whenever possible to ensure that solutions are
 delivered using an iterative approach through close collaboration with product owners and
 business sponsors who are embedded in iterative (e.g., agile) teams which allows for frequent
 reassessment in an incremental manner by implementing IT reforms based upon current guidance
 and best practices such as U.S. Digital Service Playbook, <u>TechFAR</u>, modular development
 guidance, and Investment guidance.
- Encourage iterative (e.g., agile) development and digitalization where ever possible. Digitalization is an alternative delivery method to automation. "Digitalization" is purposely and deliberately differentiated from "automation," a process which has been underway for decades.
 - O Automation can be characterized as the use of information technology to speed up existing business processes and interactions, and often can bring significant computing power to assist in performing tasks which would otherwise require excessive amounts of labor and resources. Examples of automation include payroll processing, performing bookkeeping and financial calculations, and even first- and second-generation web forms that largely mirror the paper forms and business practices upon which they were originally based.
 - o Digitalization is fundamentally different from automation in that one of its core premises is to

prioritize customer experience. Another core premise of automation is that the power of information technology and the use of user and ecosystem interaction data can, and should, be harnessed to redefine, optimize, and personalize the experiences by which Agencies interact both internally and externally. Quite often, digitalization harnesses newer forms of technology (such as mobile, sensors, social media, metadata, shared services, etc.) to deliver a differentiated and personalized end-user experience.

- Structure major planning and acquisition into useful segments with a narrow scope and brief
 duration. These segments should make adequate use of competition and appropriately allocate
 risk between the Federal Government and the contractor. The Agency CIO must approve or
 define the cost, schedule, and performance goals for major acquisitions, and the Agency's CFO
 must evaluate the proposed cost goals.
- Ensure a continuous linkage between Federal, Agency, and bureau EAs based on the Agency Information Resources Management (IRM) Strategic Plan, demonstrating such consistency through alignment with the Agency's Enterprise Roadmap and target architecture, compliance with Agency business requirements and standards, as well as identification of milestones, as defined in the Agency's EA transition strategy
- Institute performance measures and management processes to monitor and compare actual performance to planned results. Each methodology should have a set of measures that are consistent, appropriate, and tailored to that methodology.
- Achieve, on average, 90 percent of Agency cost, schedule, and performance goals for major acquisitions, per requirements of <u>Federal Acquisition Streamlining Act of 1994 (FASA, Title V)</u>. Through the TechStat process and as part of the Clinger-Cohen Act responsibility, Agency Heads should review major acquisitions that have not achieved 90 percent of the goals to determine whether there is a continuing need and what corrective action, including termination, should be taken.
- Ensure that Agencies' financial management systems conform to the requirements of OMB Circular No. A-123, Appendix D (formerly OMB Circular A-127).
- Conduct post-implementation or post-occupancy reviews of capital programming and acquisition processes and projects to validate estimated costs and benefits and to document effective management practices (e.g., lessons learned) for broader use.
- Establish oversight mechanisms that require periodic review of operational capital assets to determine how mission requirements might have changed and whether the asset continues to fulfill ongoing and anticipated mission requirements, deliver intended benefits to the Agency and customers, and meet user requirements.
- Develop, maintain, and submit within five business days (upon OMB request) the following Investment artifacts for all major IT Investments, as applicable:
 - Risk management plan and risk register
 - o Investment charter, including Integrated Project Team (IPT) and the associated project charter (if applicable)
 - Acquisition Strategy

- o Investment-level alternative analysis and benefit-cost analysis
- o Release Plan with budget baseline*
- Product Backlog*
- Sprint Plan with backlog and burn down chart*
- o Operational analyses (for operational and mixed life cycle systems)
- Post implementation review results (Investment level or project-specific)
 - o Documentation of Investment re-baseline management approval(s)
- Documentation/justification of an Investment's elimination due to funding, consolidation, reorganization, or split

635 636 637	*Release plan, Product backlog and sprint plans are project level and not IT Investment level specific. These are required only for software development projects listed under major IT Investments and only for those being managed using iterative (e.g., agile) methodology.
638 639	<i>Note</i> : Specific artifacts standard Part 3: IT Infrastructure, IT Security and Management Investments have not been specified.
640 641	11.2 What must I report in the Major IT Business Case and Major IT Business Case Detail, and when?
642 643 644 645	The policy and budget justification principles in the Major IT Business Case and Major IT Business Case Details apply to all Agencies of the Executive Branch of the Federal Government that are subject to Executive Branch review (see Clinger-Cohen Act of 1996). Section 25 of OMB Circular No. A-11 details this authority to collect and review Business Cases for major IT Investments.
646 647 648 649	All information necessary to complete the Major IT Business Case and Major IT Business Case Detail should already exist as part of the Agency's overall capital planning activities and within project- and program-specific documentation. The materials used to populate Major IT Business Case and Major IT Business Case Detail should be readily available to OMB upon request.
650 651 652	Additional information on the submission process will be posted on the <u>OMB MAX Community IDC</u> <u>page</u> . As always, pre-decisional, IT security-sensitive, and procurement-sensitive information will not be displayed to the public.
653 654 655 656 657	All software development projects must produce usable functionality at intervals of no more than six months. Projects that do not involve software development are not required to leverage iterative/agile methodologies. All projects within Investments are required to use modular development principles. All major software development projects within Investments are required to incorporate contract terms that require the use of modular/iterative (e.g., agile) development principles.
658 659 660	Major IT Business Case Details on major IT Investments shall establish cost, schedule, and performance targets for PY and CY. Furthermore, periodic performance metrics updates for ongoing operations will vary according to the nature of the metric, as indicated in Table D.1.A.
661 662	11.3 How will Multi-Agency Collaboration and Intra-Agency Shared Services Investments be captured in the Major IT Business Case and Major IT Business Case Detail?
663 664 665 666 667 668 669 670	For Multi-Agency Collaboration and Intra-Agency Shared Services Investments, the Agency Lead that provides services or coordination services to other Agencies or other units within their Agency will be primarily responsible for in completing and submitting the Multi-Agency collaboration or Intra-Agency shared services Major IT Business Case and Major IT Business Case Detail, managing it through the Agency Lead's capital programming and budget process. The Agency Lead or Service Management Organization (SMO) for Multi-Agency or Intra-Agency collaboration Investments is also responsible for ensuring that the Investment is included in their Agency IT Portfolio Summary. A SMO is a Federal organization between the agencies and commercial service providers with subject matter experts who drive standardization, integrate solutions, and respond to Agency concerns.
672 673 674 675 676	Specifically, the tracking of partner Agency funding, and related capital assets (e.g., migration Investments, Service Management Organization, supporting components) for Government-wide E-Gov and Line of Business Investments will be captured via the OMB MAX Funding Tool for E-Gov-LoB Initiatives . Agency Leads for Government-wide E-Gov/ LoB Investments listed in Appendix B are required to submit Major IT Business Cases unless they obtain a waiver from OMB.
677 678 679 680	Agency Leads and SMOs are required to submit Major IT Business Cases using the UIIs listed in Appendix B. Agencies with significant Investments in financial management, human resources, grants, or acquisitions systems, and/or services that would either provide new or modify existing capabilities to be used government-wide or that would duplicate those already available are required to submit a Major IT

- Business Case. The provider is responsible for coordinating with the customer to provide the total cost of
- 682 migration. The customer Agency will still include this Investment in their Agency IT Portfolio Summary
- and reference the Current UII of the provider Agency in the "Investment Description" field.
- During the development of the shared services Major IT Business Case and Major IT Business Case
- Detail, Agencies are encouraged to utilize the <u>USSM</u> M3 Playbook. High risk Investment as identified
- by the USSM in partnership with OMB will be required to receive approval from OMB prior to
- advancing to the next phase as identified in the M3 Playbook. OMB may require additional information
- related to these Investments and will work with the customer and provider Agencies to coordinate data
- 689 requests.
- Partner Agencies should reference the name and Current UII of the Multi-Agency/Intra-Agency shared
- 691 services Investment in the "Investment Description" field of their own partner Agency IT Portfolio
- Summary. Partner agencies should also ensure their activities and participation are included in the
- appropriate sections of the Multi-Agency major IT Business Case. The entire Life Cycle Cost total for
- the Investment, including funds provided by partner Agencies, should be included in the Multi-Agency
- 695 Collaboration or Intra-Agency Shared Services Investments Business Case.
- 696 Investments that provide a service to other agencies but do not receive contributions from partner
- 697 Agencies should be reported as Multi-Agency Collaboration Investments. Investments for Multi-
- Agency collaboration, shared services, and/or LoBs will be reflected in the managing partner's
- annual Enterprise Roadmap submission to OMB.
- 700 OMB may require additional information from partner Agencies related to the Multi-Agency
- collaboration Major IT Investments. When necessary, OMB will work with the managing partners to
- 702 coordinate data requests.

703 11.4 What fields are included and how do I complete the Major IT Business Case?

- 704 Each Investment identified in the Major IT Business Case must have a UII. The Major IT Business Case
- captures data on the strategic relevance, planning, budgeting, and technical capability for Agency major
- 706 IT Investments. Section A refers to the Investment UII's 12-digit coding. Section B includes additional
- fields concerning how the Investment relates to and supports the Agency mission, its cost effectiveness,
- and a description of leadership. Section C includes fields relevant to Investment past, current, and out-
- year budgeting. Agencies should complete relevant sections based on the type of Major IT Investment as
- 710 described in the tables in Investment-Level Reporting.
- 711 The following are the sections of the Major IT Business Case:

Section A: General Information				
Column /Field	Description			
1	UII [12-digit primary key for all Investments]			

	Section B: Investment Detail
Column /Field	Description
1	Briefly describe the Investment's purpose, goals, and current and/or anticipated benefits (quantitative and/or qualitative). Include the Investment's specific contribution to mission delivery or Agency management support functions and identify key customers, stakeholders, and other beneficiaries. [2500 char]
2	Provide at least one Agency Strategic objective code (A-11 Section 230) and/or Agency Priority Goal code (A-11 Section 250) that this Investment aligns to on performance.gov. If this Investment aligns to more than one Agency strategic objective code and/or Agency Priority goal code, list all that apply. You may locate the full list of current Agency Strategic objective and/or Agency Priority Goal alphanumeric identifier codes by downloading the spreadsheet available on performance.gov. [11 char]
3	Briefly describe the Investment's quantitative and qualitative return on Investment (ROI), including primary and secondary costs and benefits (internal and external to the government) and outcomes achieved or planned. The quantitative analysis should compare the investment's planned life cycle cost with any projected or realized cost savings, cost avoidance, and relevant justifications. If no cost savings or avoidance are planned, compare the investment's planned life cycle cost with a quantitative estimate of current or future benefits and their justification. Additionally, provide a qualitative analysis outlining any additional elements utilized in alternative selection. The response in this field should provide the justification for continued funding of this Investment. The planned performance measures in Table D.1.A should map to the Investment's planned outcomes and benefits as described in this section. [3500 char]
4	Provide specific requirements for this Investment (i.e., legislative mandates, outstanding audit findings or material weakness, Presidential Directive) and how this Investment will meet the requirement. Additionally, provide any applicable URLs to associated requirements. [2500 char]
5	If this Investment eliminates or reduces another major or non-major IT Investment(s), please list the Investment(s) and their status as represented below. (Eliminated or reduced Investments should be listed until removed from the Agency's IT Investment Portfolio Summary. Most eliminated Investments should remain in the Agency IT Investment Portfolio Summary for two years.) • Investment UII(s) [12-digit UII] • To Be Status [to be eliminated/to be reduced]
6	Does the Investment currently include an intra- or inter-Agency shared service (common, shared, or centralized solution)? [Yes/No]
7	Does the Investment plan to include an intra- or Inter-Agency shared service that it does not currently include (common, shared, or centralized solution)? [Yes/No]
8	Are all systems in this Investment PIV-enabled systems (per HSPD-12 and OMB Memorandum M-11-11)? [Yes/No]
9	Public URL(s): Provide any public facing URLs associated with this Investment, including APIs (if applicable). List as many URLs as apply, https://

	Section B: Investment Detail					
Column	Description					
/Field						
10	Paperwork Reduction Act OMB Control Number(s): If systems contained in this					
10	Investment collect data from the public, please identify the OMB Control Numbers which					
	authorize that data collection as per the Paperwork Reduction Act. Use Reginfo at the					
	following link to identify information collection requests and OMB control numbers.					
	Agencies can work with their Records Officers to determine the applicability. [Optional]					
11	PM Name: Provide the name of the Investment-level project/program manager. [250 char]					
12	PM Email : Provide the e-mail address of the Investment-level project/program manager. [250					
12	char]					
13	PM Qualifications					
15	The qualification/experience level of the PM (per OMB M-04-19).					
	Select one of the following:					
	• FAC-P/PM(DAWIA-3) – Senior					
	• FAC-P/PM(DAWIA-2) – Mid-Level					
	• FAC-P/PM(DAWIA-1) – Entry Level					
	• Other certification with 4 or more years of PM experience (within the last five years)					
	• Other certification with between 2 and 4 years of PM experience (within the last five					
	years)					
	 Other certification with less than two years of PM experience (within the last five 					
	years)					
	 No certification, but with 4 or more years of PM experience (within the last five 					
	years)					
	• No certification, but with between 2 and 4 years of PM experience (within the last five					
	years)					
	• No certification, but with less than two years of PM experience (within the last five					
	years					

Section C: Life Cycle Costs

Provide the total estimated life cycle cost for this Investment by completing the following table. All totals 714 715 represent all IT resources and budgetary sources of funding, consistent with the Agency IT Portfolio 716 Summary. Totals are to be reported in **millions of dollars**. Variations from planned expenditures will be

717 reflected in Tables C.2.1 and C.2.2 in the Major IT Business Case Detail. Federal personnel costs should

- be included only in the rows designated as "... Govt. FTE costs" and should be excluded from other 718 719 costs.
- 720
- For Multi-Agency Investments, this table should include all funding (both managing and partner Agency 721 contributions), and subsequently may not match figures provided in the Agency IT Portfolio Summary.
- 722 To the degree possible, the costs associated with the entire life cycle of the Investment should be included
- 723 in this table. Whether solutions being developed in an iterative (e.g., agile) fashion or other development 724 methodology, for years beyond the budget year, please provide your best estimates for planning purposes,
- 725 understanding that estimates for out-year costs will be less certain than estimates for the budget year or
- 726 earlier.
- 727 For lines in the table that ask for changes in your current submission compared to your most recent
- 728 previous submission, please use the FY 2019 President's Budget as your previous submission. When
- 729 making comparisons, please ensure that you compare same-year-to-same-year (e.g., the FY 2018 level for

730 2018 versus the FY 2019 level for 2018). Significant changes from the previous submission should be
 731 reflected in an updated Investment-level Alternatives Analysis, subject to OMB review.

Note: Do not enter information for the dark gray cells (these will be calculated).

	PY-1 & Prior	PY 2018	CY 2019	BY 2020	FY+1 2021	FY+2 2022	FY+3 2023	FY+4 & Beyond
Planning Costs								
DME (Excluding Planning) Costs								
DME (Including Planning) Govt. FTE Costs								
Sub-Total DME (Including Internal Labor/Govt. FTE Costs)								
O&M Costs								
O&M Internal Labor (Govt. FTE) Costs								
Sub-Total O&M Costs (Including Internal Labor/Govt. FTE Costs)								
Total Cost (Including Internal Labor/Govt. FTE Costs)								
Total Internal Labor (Govt. FTE) Costs								
Number of FTE rep by Cost								
Total change from PY final President's Budget (\$)								
Total change from PY Final President's Budget (%)								

Table/Field	Description
2.a.	In which year did or will this Investment begin? [YYYY]
	Specify a year, e.g., $PY-1 = 2017$
2.b.	In which year will this Investment reach the end of its estimated useful life? [YYYY]
	Specify a year, e.g., $BY+5=2025$
3	Compare the funding levels for PY and CY to the final FY 2020 President's Budget
	for those same years. Briefly explain any significant changes. [500 char]
	When making comparisons, ensure that you compare same-year-to-same-year (e.g.,
	the FY 2018 level for 2018 versus the FY 2019 level for 2018).

MAJOR IT BUSINESS CASE DETAIL

12. What is the Major IT Business Case Detail?

The Major IT Business Case Detail is designed to coordinate OMB's collection of Agency information for its reports to Congress, as required by the Federal Acquisition Streamlining Act of 1994 (FASA, Title

738 V) and Clinger-Cohen Act of 1996. The Major IT Business Case should demonstrate support for the

mission statements, long-term goals and objectives, and annual performance plans developed pursuant to

the Government Performance and Results Act – Modernization Act (GPRA-MA) of 2010. Major IT

Business Case Detail on Major IT Investments establishes reporting requirements through the ITDB to

ensure the proper execution of those Investments against the established performance plans.

Major IT Business Case Detail is used to provide OMB with Current Year (FY 2019) and Budget Year

(FY 2020) Investment plans and performance data. Include in this exhibit, at a minimum, all projects,

activities, and operations scheduled to commence or continue in the CY and/or BY. Information in the

Major IT Business Case Detail should reflect current status; therefore, the Federal ITDB should be

updated as soon as the data becomes available for continuous updates.

In Major IT Business Case Detail, Investments are described as:

Investment

o Projects

Activities

Operations

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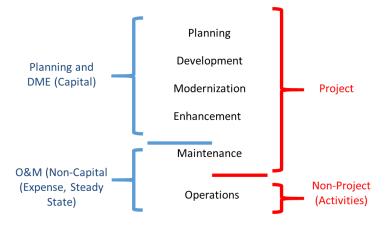
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While project reporting is often focused on DME efforts, OMB has consistently maintained that maintenance-related projects (e.g., fixing or replacing existing infrastructure resulting in no enhancement or modernization) within O&M spending should also be reported. The graphic above displays the breakdown of DME and O&M spending that relates to project and non-project reporting. Not every O&M dollar spent should be incorporated within a project. However, large scale refreshes and other maintenance projects with a defined start and end date should be reported moving forward. See Appendix C for examples of maintenance projects that should be reported. OMB does not intend for Agencies to retroactively report old maintenance projects.

Report information about these areas in the following Major IT Business Case Detail sections:

- A: *General Information*: Enter basic information about the major IT Investment.
- B: *Investment Risk:* Identify all open risks to the Investment.
 - C: Project Plan and Execution Data:
 - C.1: *Projects*: Identify all of the Investment's projects with activities occurring in CY and BY.
 - C.2.1: *Project Activities Table*: Outline the activities that are performed to achieve the outcome of each project.
 - C.2.2: *Project Activity Table (Agile):* Outline the activities that are performed to achieve the outcome of each project.
 - D: Operational Data:
 - D.1: *Operational Performance Information:* Identify performance targets and results for evaluating operations.
 - D.2: *Metrics Definitions*: Identify measures used for monitoring performance.
 - D.3: *Metrics Actuals:* Identify actual results for measures used for monitoring performance.

Section A: General Information				
Column /Field	Description			
1	UII [12-digit primary key for all Investments]			
	Agency-provided UII, consistent with Agency IT Portfolio Summary.			

Section B: Investment Risk

Risk assessments should include both project and operational risk information from all stakeholders and should be performed throughout the life cycle of the Investment. This section should follow the Regular Updates Reporting schedule (see Section 2.2).

In Table B, list active risks at the Investment level and provide risk assessment information. The risks listed should be consistent with what is included in management briefings or Agency status reviews on an ongoing basis. It is not necessary to address all 20 OMB Risk Areas. There are not a specified number of risks for Agencies to include for each Investment. Include the following data in Table B:

Column /Field	Description
1	Risk Description
	A short description that identifies the risk, the cause of the risk and the effect that the
	risk may have on the Investment. Agencies should use the "if, then" format to
	indicate each risk's condition present and associated risk event. [500 char]
2	Risk Area
	The relevant OMB Risk Area for each risk.
	Risk Areas include:
	1) Schedule
	2) Initial costs
	3) Life cycle costs
	4) Technical obsolescence
	5) Feasibility
	6) Reliability of systems
	7) Dependencies and interoperability between this Investment and others

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Section B: Investment Risk

- 8) Surety (asset protection) considerations
- 9) Risk of creating a monopoly for future procurements
- 10) Capability of Agency to manage the Investment
- 11) Overall risk of Investment failure
- 12) Organizational and change management
- 13) Business
- 14) Data/info
- 15) Technology
- 16) Strategic
- 17) Security
- 18) Privacy
- 19) Project resources
- 20) Records management

3 Risk Probability

The likelihood that the risk will become realized as an issue. For the purposes of standard reporting across Agencies, the following probability benchmarks have been provided for each response to indicate the estimated likelihood that a given risk will become realized as an issue [Very Low, Low, Medium, High, Very High]:

- Very Low 0-20%,
- Low 21-40%,
- Medium 41-60%,
- High 61-80%,
- *Very High* 81-100%.

4 Risk Impact

The level of a potential negative impact for the risk. For the purposes of standard reporting across Agencies, the following impact benchmarks have been provided for each response to indicate the estimated detriment to Investment outcome objectives in the event that a given risk is realized as an issue [Very Low, Low, Medium, High, Very High]:

- *Very Low little or no impact on achieving outcome objectives,*
- Low –minor impact on achieving desired results, to the extent that one or more stated outcome objectives will fall below goals but well above minimum acceptable levels,
- Medium moderate impact on achieving desired results, to the extent that one or more stated outcome objectives will fall below goals but above minimum acceptable levels,
- High significant impact on achieving desired results, to the extent that one or more stated outcome objectives will fall below acceptable levels,
- Very High severe impact on achieving desired results, to the extent that one or more critical outcome objectives will not be achieved.

5 Mitigation/Contingency Plan

A short description of the Investment's mitigation strategy for preventing the risk from becoming realized as an issue and response strategy should the mitigation plan fail to prevent the risk from becoming realized as an issue. This plan should deal with methods for avoiding or pre-empting risks as well as addressing risks should they become realized as issues. [1000 char]

Section C: Project Plan and Execution Data

Tables C.1, C.2.1, and C.2.2 are used to report all projects with activities underway in any portion of CY or BY, regardless of where the project occurs in the Investment life cycle (projects may be conducted in Planning, DME, and/or Maintenance). At a minimum, Tables C.1, C.2.1 and C.2.2 should include:

- Projects and activities that started in a previous fiscal year (PY and earlier) that have not been completed by the beginning of the CY; and
- Projects and activities that start and finish in the CY and BY or start but do not finish in CY or BY.
- Projects and activities commencing beyond the BY may also be reported, as available.

Beginning with the FY 2020 reporting cycle, Agencies are required to distinguish which, if any, of their IT projects is funded either through the Technology Modernization Fund (TMF) or their Agency's IT Modernization Working Capital Fund (IT Mod WCF) established through the MGT Act. Agencies should report those projects that are TMF- or IT WCF-funded as distinct projects that match the sum of the relevant TMF or IT WCF funding sources for this Investment. Doing so will enable OMB and Agencies to monitor the individual performance of TMF and IT WCF-funded projects as well as meet the reporting requirements of the Modernizing Government Technology (MGT) Act.

Include the following data in Table C.1:

	Projects Table C.1
Column /Field	Description
1	Unique Project ID An Agency-specified number that uniquely identifies the project within the Investment.
2	Project Name Name used by the Agency to refer specifically to the project.
3	Objectives/Expected Outcomes Description of the project's functionality, capability, or goal.
4	Project Start Date Actual start date of in-progress projects or planned start of projects that have not yet begun (may be before the current FY or activities listed in Table C.2.1). [MM-DD-YYYY]
5	Project Completion Date Planned date of completion of in-progress projects or actual completion date of projects that have been completed (may be after BY or completion date of activities listed in activities Table C.2.1). [MM-DD-YYYY]
6	Project Life-Cycle Cost Enter the total cost of all activities related to the project as described in OMB Circular A-131 (in \$ millions). This only includes costs for the project, and does not include operations costs.
7	System Development Life Cycle (SDLC) Methodology Which development methodology does this project use? 1) Waterfall 2) Iterative: Incremental, Spiral, Agile 3) Not Primarily a Software Development Project
8	Production Release each 6 months or less? Does this Project have a production release containing useable functionality at least every 6 months? [Yes, No, N/A]
9	Comment

	Section C: Project Plan and Execution Data
	If this Project does not provide a production release at least every 6 months, please
	provide a rationale as to why.
10	When was the last date that a revised product was deployed to production?
	This question collects information on how frequently changes to the system are
	deployed. A change can mean a new or removed feature, a patch, or a bug fix that
	was deployed via a change in the system's application code. If a system is under
	version control, this date can be easily determined by looking at the date on which
	the most recent commit to the production version of the codebase was made. If there
	has not yet been a release to production, provide the projected first production
	deployment date. This field is not required for SDLC Methodology 3 "Not Primarily a Software Dayslanment Project" (MM DD VVVV)
11	a Software Development Project." [MM-DD-YYYY] Funded by TMF or IT WCF Funding?
11	Indicate whether the project is funded through either the Technology Modernization
	Fund (TMF) or their Agency's IT Modernization Working Capital Fund (IT Mod
	WCF) established through the MGT Act. Projects partially funded by IT WCF or
	TMF should be broken out and reported as separate projects altogether to the extent
	that all project activities are only funded by IT WCF or TMF funding. [TMF, IT
l	WCF, N/A]
12	Commercial Solution(s) Adoption
	Describe the extent to which the project is using commercial products and services.
	Relates only to products and services purchased from industry rather than
	supplied/created by an Agency internally using only Federal labor/materials.
	[1000 char] Only projects that respond "TMF" or "IT WCF" to "Funded by TMF
	or IT WCF Funding?" are required to provide detailed responses in this field. All
1.2	other projects should report "N/A."
13	Commercial Solution(s) Reasoning
	Provide, if applicable, a justification of why commercial products and services were not used and the associated development and integration costs of custom
	development. Relates only to products and services purchased from industry rather
	than supplied/created by an Agency internally using only Federal labor/materials.
	[1000 char] Only projects that respond "TMF" or "IT WCF" to "Funded by TMF
	or IT WCF Funding?" are required to provide detailed responses in this field. All
	other projects should report "N/A."
14	Commercial Solution(s) Costs
	Provide, if applicable, the associated development and integration costs of custom
	development. Only projects that respond "TMF" or "IT WCF" to "Funded by TMF
	or IT WCF Funding?" are required to provide detailed responses in this field. All
	other projects should report "N/A."

Each project listed in Table C.1 should have at least one associated activity. Please include any relevant non-iterative (e.g., agile) project activities in Table C.2.1 and include iterative project activities in Table C.2.2.

In Table C.2.1, describe, at a minimum, all non-iterative (e.g., agile) project activities for projects in Table C.1 that started in a previous FY (PY and earlier) and that have not been completed by the beginning of the CY, as well as activities that are scheduled to start in the current FY and BY. In line with modular development principles, each software development project must produce usable functionality at intervals of no more than six months. "Actual Costs" should include all completed budgetary outlays for that activity, and for the activity to be considered complete, none should remain. Include the following data in Table C.2.1:

	Project Activity Table C.2.1
Column /Field	Description
1	Unique Project ID
	An Agency-specified number that uniquely identifies the project within this Investment.
2	Activity Name
	A short description consistent with the critical steps within the Agency project
	management methodology.
3	Activity Description
	Describe what work is accomplished by the activity.
4	Structure ID
	Agency-specified identifier that indicates the work breakdown structure (WBS) the
	Agency uses to associate the activity with other activities or a project. Provide this in
	the format of "x.x.x.x.x" where the first string is the Unique Project ID and each
	following string (separated by periods) matches the structure ID of a parent activity. See
	below for more guidance about parent and child activities expressed through this
	structure. [x.x.x.x.x]
5	Start Date Planned
	The planned start date for the activity. This is the baseline value.
6	Start Date Projected
	If the activity has not yet started, enter the current planned start date of the activity.
7	Start Date Actual
	When the activity starts, enter the actual start date here.
8	Completion Date Planned
	The planned completion date for the activity. This is the baseline value.
9	Completion Date Projected
	If the activity has not yet completed, enter the current planned completion date of the
	activity.
10	Completion Date Actual
	When the activity ends, enter the actual completion date here.
11	Total Costs Planned
	The planned total cost for the activity. This is the baseline value. $[$M]$
	Note: For programs that are employing earned value management, Agencies should
	reflect "budget at completion" in the "Total Costs Planned" field and "estimated at
	completion" in the "Total Costs Projected" field.
12	Total Costs Projected
	When the activity is not yet completed, enter the current planned total cost of the
	activity. [\$M]
	<i>Note</i> : For programs that are employing earned value management, Agencies should
	reflect "budget at completion" in the "Total Costs Planned" field and "estimated at
	completion" in the "Total Costs Projected" field.
13	Total Actual Costs
	When the activity ends, enter the total actual costs for the activity here. $[$M]$
	,

Reporting Parent and Child Activities (WBS Structure)

"Child" activities may be grouped under "Parent" activities to reflect the WBS used by the Agency to manage the Investment. If a WBS is not used by the Agency, report the relationship between parent activities and child activities in "Structure ID" using this method. Agencies are encouraged to report a transparent view of the Investment baseline on the Federal ITDB (at least Level 3 of the WBS). Levels 1 and 2 typically do not provide enough information to describe the work to be accomplished in short

enough duration that early warnings of Investment performance can be identified (M-10-27).

When reporting an activity, enter the "Structure ID" as a period-delimited string consisting of the "Unique Project ID" and each nested parent activity between the project level and the child activity. The "Structure ID" to enter will vary depending on the activity's WBS level.

Example: For child activity 3 that is part of parent activity 10, which in turn is part of parent activity 2, which in turn is part of Project A, enter: A.2.10.3

Project A

o Parent Activity 2

Parent Activity 10

• Child Activity 3

There is no limit to the number of nested "child" and "parent" relationships allowed, and this depth may vary from activity to activity and from project to project.

If any of a parent activity's child activities occurs in the current FY, then <u>all</u> child activities of the parent activity must be reported, regardless of their timing. This is to ensure that a complete view of the parent activity is available.

All activities with no child activities must have, at a minimum, *Unique Project ID, Activity Name, Activity Description, Structure ID, Start Date Planned, Start Date Projected (or Actual), Completion Date Planned, Completion Date Projected (or Actual), Total Costs Planned, and Total Costs Projected (or Actual)*

Actual).

Completed activities must also have *Start Date Actual*, *Completion Date Actual*, and *Total Actual Costs*. Any parent activities with a child activity must be completely described by the aggregate attributes of its child activities. In the ITDB, the cost and schedule information for parent activities will be based on the cost and schedule information of the lowest level of child activities reported. Agency-submitted cost and schedule information is not required for parent activities.

Unique Project ID	Activity Name	Structure ID	Start Date Planned	Completion Date Planned	Planned Total Costs
A	Design	A.2	2/1/2018	2/29/2018	\$2.5
A	Business Requirements	A.2.1	2/1/2018	2/10/2018	\$1.0
A	Technical Requirements	A.2.2	2/11/2018	2/20/2018	\$1.0
A	Architecture	A.2.3	2/21/2018	2/29/2018	\$0.5

Parent activities like the one highlighted above (Structure ID: A.2) are optional. Reported parent activities values will be ignored, as calculated values will be determined by aggregating the cost and schedule information reported in the child activities.

If iterative methodology (e.g., agile) is being used, the below table can be leveraged as an alternative to Table C.2.1. This table is being added as an optional alternative to Table C.2.1 for iterative-based development projects. This table comes at Agencies' request for an iterative-friendly alternative to report performance. Either Table C.2.1 or C.2.2 should be used to enter project activity data; the same project can appear in both tables, if applicable. In Table C.2.2, describe, at a minimum, all iterative (e.g., agile) project activities for projects in Table C.1 that started in a previous FY (PY and earlier) and that have not been completed by the beginning of the CY, as well as activities that are scheduled to start in the current

- 833 FY and BY. The terms and concepts in Table C.2.2 are based on the Agile Scrum Methodology. If you
- are using another iterative methodology, still complete the table in line with the Agile Scrum
- 835 Methodology.
- "Actual Costs" should include all completed budgetary outlays for that activity, and for the activity to be considered complete, none should remain.

	Project Activity Table (Agile) C.2.2	
Column /Field	Description	
1	Unique Project ID	
	An Agency-specified number that uniquely identifies the project within this	
	Investment.	
2	Release Name	
	(Activity Name) Feature as defined in Product Backlog.	
3	Release Number	
	Iteration/Feature as defined in Product Backlog.	
4	Release Description (Activity Description)	
5	Start Date Planned	
	Release start date planned. [MM-DD-YYYY]	
6	Start Date Projected	
	If the activity has not yet started, enter the current planned start date of the activity.	
7	Start Date Actual	
	Release start date actual. [MM-DD-YYYY]	
8	Completion Date Planned	
	Release completion date planned. [MM-DD-YYYY]	
9	Completion Date Projected	
	If the activity has not yet completed, enter the current planned completion date of the	
	activity.	
10	Completion Date Actual	
	Release completion date actual. [MM-DD-YYYY]	
11	Total Costs Planned	
	Total cost planned for the release. $[$M]$	
12	Total Costs Projected	
1-	When the activity is not yet completed, enter the current planned total cost of the	
	activity. [\$M]	
13	Total Actual Costs	
10	Total actual cost for the release. [\$M]	
14	NPI	
1.	Number of planned iterations/sprints in the release.	
15	NPE	
15	Number of planned Epics (fraction of an Epic is acceptable).	
16	NCE	
10	Number of completed Epics in a release (fraction of an Epic is acceptable).	
17	NCI	
1 /	Number of completed iterations/sprints in a release.	
18	DTC	
10	How many direct technical contributors are on the project (inclusive of government	
	or contractor engineers and designers that contribute directly to the code base; this	
19	number might not equate to the total FTE at the Investment level). DPC	
17		
	How many other staff contribute directly to the project (inclusive of government or	

Project Activity Table (Agile) C.2.2

contractor project managers, testers, agile coaches, and others; this number might not equate to the total FTE at the Investment level).

Section D: Operational Data

Section D applies to operational and mixed life-cycle Investments with operational components. It focuses on operational analysis results and performance metrics.

Operational Analysis

Provide the date and results of the last Operational Analysis (for operational and mixed life cycle systems/Investments).

Operational Analysis Table D.1		
Date of Analysis	Analysis Results	Analysis Conclusion
[MM-DD-YYYY]	[Limit: 2500 char] Include a summary of the results including identified actions.	[Drop Down menu: continue as- is, initiate remediation action, initiate innovation action, initiate modernization/replacement action, initiate disposal action]

Operational Performance

Performance of operational Investments is continuously monitored to demonstrate the Investment is meeting the needs of the Agency, delivering expected value, and/or being modernized and replaced consistent with the Agency's Strategic Plan, Investment portfolio, enterprise architecture, risk management framework, acquisition strategy, and human capital plan. Measures used for monitoring performance should be as "outcome" based as possible rather than "output" based, and should help benchmark Investment performance and should trigger considerations of how the Investment's objectives could be better met, how costs could be reduced, and whether the organization should continue performing a particular function. The OMB Capital Programming Guide (page 44-46) directs that operational performance metrics should seek to answer more subjective questions in the specific areas of:

Customer Satisfaction (Process Results) – Analysis should focus on whether the Investment supports the Investment's customer processes as designed. The focus is on how well the Investment is delivering goods or services it was designed to deliver. Metrics appropriate for monitoring performance in this area might address the following:

- Process execution (e.g., acquisition, efficiency, correctness, completeness, timing);
- Product or service delivery (e.g., quality, timeliness, coverage, availability, satisfaction);
- Technology functionality or usability (e.g., end-user satisfaction);
- Increased access to innovative contractors and providers; and
- Technology performance (e.g., service level agreements).

Strategic and Business Results – Analysis should focus on the effect the Investment has on the performing organization. The focus is on how well the Investment contributes to the organization's achievement of strategic goals, fulfillment of its mission, and/or meeting service level agreements with its customers. Metrics appropriate for monitoring performance in this area would be specific to the strategic or business concern and would typically address effectiveness or the Investment contribution. Metrics appropriate for monitoring performance in this area might address the following:

- Business process improvements or advances that support Agency priority goals and measures; and
 - Actions, time, or burden reduction in activities for either Federal users or American taxpayers using the tools.

Financial Performance – Analysis should focus on the comparison of current performance with a pre-established cost baseline. The Investment should also be subjected to a periodic review for reasonableness and cost efficiency. Metrics appropriate for monitoring performance in this area might address the following:

- Cost control (e.g., costs remaining within the specified constraints);
- Cost reasonableness (e.g., with respect to the cost of similar Investments benchmarks); and
- Cost efficiency (e.g., cost per unit transaction, user, query especially units of business interest).

Innovation – Analysis should focus on identifying means of maintaining or improving Investment performance in terms of Customer Satisfaction, Strategic and Business Results, and Financial Performance. The focus is on how Investments might maintain with fewer resources or improve current performance through innovative processes such as: generating net new learnings (research and development), supporting buy/build marketplace health, promoting vendor independence and strategic flexibility, employing modularization, rationalizing architecture, and incentivizing high risk/low cost/high yield innovation projects within the Investment.

Of all the metrics in use to monitor Investment performance fully, <u>report a minimum of five</u>, drawing on those that best reflect the value of the Investment based upon the following:

- 1. Customer Satisfaction (Process Results): Provide a minimum of one metric that reflects this area.
- 2. Strategic and Business Results: Provide a minimum of three metrics that reflects this area.
 - a. At least one of the metrics must have a monthly reporting frequency.
 - b. For Investments listed in Part 1 of the Agency IT Investment Portfolio Summary, at least one of these metrics must contribute to a Strategic Objective or Agency Priority Goal.
- 3. Financial Performance: Reporting metrics that reflect this area is optional.
- 4. *Innovation:* Reporting metrics that reflect this area is optional.
- Note: The fifth metric, or more as Agencies may report more than five metrics, can come from anycategory.
- All data will be displayed to the public on the ITDB. Ensure that all metrics provided are publicly releasable.

904 **Defining Metrics**

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905 Use the following table to define the attributes of each individual metric:

Metrics Definitions Table D.2		
Column	Description	
/Field		
1	Metric ID	
	Unique ID provided by Agency for the metric. When reporting actual results (see	
	below), use this ID to reference the correct metric. [numeric]	
2	Metric Description	
	Description to help the user understand what is being measured. In this field, describe	

	Metrics Definitions Table D.2	
Column /Field	Description	
	the units used, any calculation algorithm used, and the definition or limits of the population or "universe" measured. [500 char]	
3	Unit of Measure Brief indication of what quantity is measured (e.g., number, percentage, dollar value) for each metric. [50 char]	
4	Performance Measurement Category Mapping Identify the measurement category, as shown above in this section's instructions. [Measurement Category]	
5	Agency Baseline Capability What was the quantitative value of your Agency's capability per this metric prior to this Investment's life cycle. If your Agency has not measured this capability before, you may leave this field blank; otherwise, provide the numeric value of the historic capability measurement.	
6	2018 Target Metric target value from 2018, relative to the reporting frequency. [numeric]	
7	2019 Target Metric target value for 2019, relative to the reporting frequency. [numeric]	
8	Measurement Condition Indicates whether a desired result would be "over target," indicating that the trend should maintain or increase, or "under target," indicating that the trend should maintain or decrease. [Over target/Under target]	
9	Reporting Frequency How often actual measurements will be reported (monthly, quarterly, semi-annually, or annually). Annual reporting frequencies are reserved for annual operating cost measures, performance measures associated with the Agency's annual performance plan, or other measures that can only be appropriately measured on an annual basis. [Monthly, Quarterly, Semi-Annual, Annual]	
10	Agency Strategic Objective or Priority Goal Each Investment must have at least one active metric in the Strategic and Business Results category (of any reporting frequency) tied to the foremost Agency strategic objective (SO), or Agency priority goal (APG) (as required by A-11 Section 230 and Section 250 respectively). Provide that code for the associated metric using the appropriate alphanumeric identifier provided by performance.gov. [11 char]	
11	Is the Metric Retired? Check this box when performance metrics are no longer useful for Investment management. [Check Box]	

Providing Actual Results

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As actual results are measured at the appropriate frequency, they should be reported as new entries in Table D.3:

Metric Actual Results Table D.3			
Column /Field	Column / Field Description		
1	1 Metric ID Unique ID provided by Agency for the metric. When reporting actual results (see		
1			
	below), use this ID to reference the correct metric. [numeric]		

Metric Actual Results Table D.3			
Column /Field	Description		
Actual Result			
2	Actual result measured. [numeric]		
3	Date of Actual Result		
3	End date of the most recent reporting period. [MM-DD-YYYY]		
1	Comment		
4	Comments for metrics that have not been met will be valuable for OMB and Agency		
	Reviewers. [500 char] (optional)		

When adding a new metric, include historical actual result information as available.

IT INFRASTRUCTURE, IT SECURITY, AND IT MANAGEMENT STANDARD

INVESTMENTS

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13. How do IT Infrastructure, IT Security, and IT Management Standard Investments differ from

913 Major Business Cases?

914 Beginning with the FY 2018 Guidance, Standard IT Infrastructure Investments were introduced and 915 aligned to the IT Tower layer of the TBM taxonomy. This year's Guidance finishes introducing the 916 separate Investment Reports with relevant reporting requirements for each Standard IT Infrastructure and 917 Management Investment. Agencies shall, in a multi-year phased approach, realign costs represented in 918 their IT Portfolio Summary Part 3: Infrastructure, Security and Management Non-Standard Investments 919 into Standard Investments that will be consistent throughout and across each Agency. This is intended to 920 provide more visibility to Agency CIOs. This approach is in contrast to aggregated and inconsistent 921 Investments at and within each Agency. The Standard Investments are related to costs associated with all 922 agencies, not mission-specific, rather commodity IT. Some Standard Investments will have reports

tailored to the commodity IT data that it comprises. Each Standard Investment Report will have its own reporting requirements and frequency. Please refer to table in Section 2.1 Annual Reporting for more

925 detail on this.

The required Standard Investment Reports include the following, for which definitions are included in Appendix C: IT Security and Compliance, Network, Data Center and Cloud, and End User. The Optional Standard Investment Reports include the following: Application and Delivery.

Standard Investment	Reporting Level	Relationship to other reporting	Frequency
IT Security and Compliance	Every cyber security program should be represented as a separate Investment	Budget Data Request on Government-wide Tracking of Resources for Cyber Activities (Cyber BDR): The data required within this investment report enables alignment of Security Operations Center (SOC) data as a subset within overall Agency cybersecurity data.	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials); Regular updates Data should be kept updated
Network	Each WAN Network should be represented as a separate Investment; LAN and MAN Networks may be reported at the Agency's point of management	Cyber BDR: Network security capability costs EIS/Contract data: Network & Telecommunication costs FISMA Metrics: Identify, Detect, Protect (related to security performance and inventory collected through DHS's CyberScope	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials); Regular updates Data should be kept updated

Standard Investment	Reporting Level	Relationship to other reporting	Frequency
Data Center and Cloud	Agency's should report at most granular level possible (i.e., tiered data center or cloud procurement level), but may report at the bureau or Agency level if further granularity cannot be obtained	IDC: The data required within this Investment Report enables alignment of budget to Data Center inventory and performance metrics.	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials); Regular updates Data should be kept updated
End User	Agency's discretion whether to report at an Agency level, component level, or more granular. Recommend at the point in which End User Services are managed	IDC: The IT category management performance metrics reporting requirements for workstations, software, and mobile services are captured through the IDC process.	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials); Regular updates Data should be kept updated
Output	NONE	N/A	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials)
Application	Agency's discretion whether to report at an Agency level, component level, or more granular. Recommend at the point in which Application Services are managed	N/A	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials); Regular updates Data should be kept updated
Delivery	Agency's discretion whether to report at an Agency level, component level, or more granular. Recommend at the point in which Delivery Services are managed	N/A	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials); Regular updates Data should be kept updated

Standard Investment	Reporting Level	Relationship to other reporting	Frequency
Platform	NONE	N/A	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials);
Part 3 Non- Standard Infrastructure Investments	Existing major or non- major investments that have not been realigned with Standard Investments (note: Non- Standard Investments will be deprecated by FY 2021 cycle)	As Standard Investments are created the reliance upon non-categorized investments decreases.	September (Request), January (President's Budget), February (Updates if needed to align with Congressional Justification materials); Regular updates Data should be kept updated

14. IT Security and Compliance Standard Investment

- 931 **Standard Investment Definition:** An IT investment for the provisioning of Security Operations Centers
- 932 (SOCs) and associated costs in alignment with the TBM IT Security and Compliance tower.
- 933 **Investment Usage:** In the spirit and support of FISMA and FITARA, every organization managing a
- 934 security program must report an IT Security and Compliance Standard Investment to provide visibility
- 935 into costs and outcomes of its cybersecurity activities. These Investments should include bureau or
- Agency-wide IT security and compliance spending, such as Agency or component SOCs, not contained
- 937 within specific program budgets.

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938 Standard Investment Report: Yes.

- Cybersecurity is a top priority for the Administration, and Agencies are required to report on their
- 940 Standard Investments for IT Security and Compliance at the level at which they are managed and
- executed. For any Investment designated as an IT Security and Compliance Standard Investment (code
- 942 "02" in Column 7 of the IT Investment Portfolio Summary), complete the following Investment report.
- This IT Security and Compliance Standard Investment Report is required for the FY 2020 cycle. The
- 944 following are the sections of the IT Security and Compliance Investment Report:

Section A: General Information		
Column /Field	Column / Field Description	
1	UII [12-digit primary key for all Investments]	

Section B: Security Operations Center Reporting

Each dollar spent should maintain or enhance security posture and reduce risks. In line with previous years, the security-related information collected through the CPIC process will be used in conjunction with information collected through multiple collections to gain a more complete understanding of agencies' capabilities and resourcing. In a change from previous years, the information collected in the previously used Cybersecurity Costs and Capability table will be removed and replaced. Though the information was valuable in understanding how agencies budget for cybersecurity, the data collected was largely duplicative of information collected through the annual Cyber BDR, where they will remain due to additional reporting requirements that would be impractical to collect through the CPIC process for Agencies.

For this collection, agencies are asked to report budget information related to their SOCs. These vital security hubs are at the epicenter of Federal cybersecurity, and gaining greater detail regarding their costs and operations is necessary to continue driving improvements in the protection of Federal systems and information. In Table B.1 Agency SOC, Agencies should report the following data in separate rows for each Agency-operated SOCs included within this Standard Investment. As Section B now focuses exclusively on Agency SOC spending and management as a subset of Agency and bureau-level security and compliance spending, there is no expectation that the total spend reported in Section B should match the Investment's total IT spend. Total costs reported in Table B.1 or B.2 are not required to equate to the total IT Security and Compliance Standard Investment or IT Security and Compliance IT Tower spend across the IT Portfolio. Costs associated with these tables may equal or be a subset of Investment or IT Tower spending.

Table B.1 Agency SOC		
Column/Field Description		
1	SOC Identifier	
	Provide the individual SOC name or numerical designation used by the Agency	
2	Covered Entities [5 digit code]	

Table B.1 Agency SOC
List of Federal organizations (e.g., Agencies, bureaus, components) for which the
SOC provides security services
[Agency/Bureau code(s) from OMB Circular A-11 Appendix C. Please append
Agency code before Bureau code, if applicable, e.g., USDA, Office of the Secretary
is coded 005(Agency) 03 (Bureau) as "00503"]
PY 2018 Amount [\$M]
PY 2018 Total Federal FTEs [Count]
PY 2018 Total Contractor FTEs [Count]
CY 2019 Amount [\$M]
CY 2019 Total Federal FTEs [Count]
CY 2019 Total Contractor FTEs [Count]
BY 2020 Amount [\$M]
BY 2020 Total Federal FTEs [Count]
BY 2020 Total Contractor FTEs [Count]
Performance Hours
The number operating hours per day during which the SOC executes upon core
capabilities of a SOC, including detection, monitoring, analysis and investigation,
and responding to potential incidents [Number]
Continuous Operations?
Does the SOC operate continuously during weekends, holidays, and Agency
closures? [Yes, No]

In Table B.2 Contracted SOCs, Agencies should report the following data in separate rows for each instance in which this investment contracts from a SOC service provider. Costs included in this table should be reflected in this Standard Investment's Outside Services Cost Pool.

	Table B.2 SOC as a Service
Column/Field	Description
1	SOC Identifier
	Provide the individual SOC name or numerical designation used by the Agency
2	Service Provider Type
	Select whether the service provider is "Government" or "Private"
3	Provider Entity [3 digit code]
	The top-level Department or Agency which provides SOC services to the reporting
	Agency (Note: Required only if Service Provider Type is "Government")
	[Agency Code from OMB Circular A-11 Appendix C]
4	Covered Entities [5 digit code]
	List of Federal organizations (e.g., Agencies, bureaus, components) for which the
	SOC provides security services
	[Agency/Bureau code(s) from OMB Circular A-11 Appendix C. Please append
	Agency code before Bureau code, if applicable, e.g., USDA, Office of the Secretary
	is coded 005(Agency) 03 (Bureau) as "00503"]
5	PY 2018 Amount [\$M]
6	CY 2019 Amount [\$M]
7	BY 2020 Amount [\$M]
8	Performance Hours
	The number operating hours per day during which the SOC executes upon core
	capabilities of a SOC, including detection, monitoring, analysis and investigation,
	and responding to potential incidents [Number]
9	Continuous Operations?

Table B.2 SOC as a Service

Does the SOC operate continuously during weekends, holidays, and Agency closures? [Yes, No]

- 970 15. IT Management Standard Investment
- 971 **Standard Investment Definition:** An IT investment for the provisioning of an enterprise-wide IT
- management capability as defined by the TBM IT Management tower.
- 973 **Investment Usage:** An IT Management Standard Investment is created for each independently managed
- 974 enterprise-wide IT Management capability within an Agency. For example, enterprise-wide IT
- Management capabilities may be independently managed based on sub-agencies or capability.
- 976 Standard Investment Report: No.
- 977 There is no Standard Investment Report for IT Management Standard Investments included in the FY
- 978 2020 cycle. However, the need for a Standard Investment Report will continue to be evaluated to
- 979 determine whether additional information relating to this type of Standard Investment would provide
- 980 useful and actionable data for OMB and agencies.

16. Network Standard Investment

- 982 **Standard Investment Definition:** An IT investment for the provisioning of an enterprise-wide wide-area
- 983 network (WAN), local-area network (LAN), and metropolitan-area network (MAN) capabilities as
- defined by the TBM Network tower.
- 985 Investment Usage: Agencies should report Network Standard Investments at the WAN level. Agencies
- should report one Network Standard Investment for each WAN they manage but, may report LANs and
- MANs together in one investment if they are managed at the same level. Agencies should determine how
- best to include their LANs and MANs in their investment reporting based on how they are managed (e.g.,
- 989 by region).

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Standard Investment Report: Yes.

- 991 Agencies are required to create budget plans for their network and telecommunications capabilities using
- 992 the Network Standard Investment type. Agencies should report their Enterprise Infrastructure Solution
- 993 (EIS) transition costs within one or more Network Standard Investments. EIS is a government-wide
- acquisition that replaced Networx contact and is mandated to use when purchasing Agency infrastructure.
- The scope of budget and performance data for this type of IT Investment is different from the
- 996 mission/business Investment and the other specialty types of Investments. The data collected in the
- Network Standard Investment is tailored to capture data relevant only to that type of Investment.
- Each Network Standard Investment shall request budget resource requests with the following categories of data:

Service Area	Service Description
Transition Services	Transition services related to the migration from Networx/local network and telecommunications capabilities to EIS capabilities
Data Services	VPN, Ethernet, Optical Wavelength Services, SONET, Private Line, Dark Fiber, IP services
Voice Services	VoIP
Legacy Voice Services	Traditional Voice services, Circuit Switched Data Service, Toll Free
Satellite Service	Satellite (mobile and fixed) primary communication and disaster communications
Managed Services	Managed Network Services, web conferencing services, Unified Communications, Integrated Performance Monitoring, Managed Mobility, Audio Conferencing, Video Conferencing
Service Related Equipment	Equipment to include cable and wiring
Service Related Labor	Sum of both internal and external labor to deliver network or voice services not collected in other categories
Access Arrangements	Connects an Agency's location with dedicated, relatable bandwidth to the service provider's network. This service is a necessity for most EIS services.

1000 The following are the fields in a Network Investment:

Section A: General Information	
Column/Field	Description
1	UII [12-digit primary key for all Investments]
2	Brief Description – Brief description of the organizational/geographic area or areas
	supported by the network that can clarify costs and metrics
3	Network Primary POC – The name of the managerial primary point of contact for
	this network's operations

	Section A: General Information
4	Primary POC Email – The email address of the primary POC
5	Anticipated EIS Transition Date – The date by which it is expected to disconnect
	services from Networx. If this network is not intending to transition to EIS, please
	indicate such by identifying that it is not applicable, "N/A".

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Section B: Investment Cost Details

Complete a table for each Investment component (Transition Services, Data Services, VoIP Voice Services, Legacy Voice Services, Toll Free Voice Services, Managed Network Services, Satellite Services, Equipment& Cable and Wiring, Labor, and Access Arrangements). Not all Network Components may have applicable annual spending data; therefore, only complete those Network Component tables that are applicable for this Investment.

Note: This will be reviewed with proposed cost tables in other Standard Investments and normalized where applicable.

where applicable.	
Column/Field	Description
1	Network Component
	Note: Accepted responses in this field will be limited to the areas described above,
	specifically:
	 Transition Services
	 Data Services
	 VoIP Voice Services
	 Legacy Voice Services
	 Toll Free Voice Services
	 Managed Network Services
	Satellite Services
	• Equipment & Cable and Wiring
	• Labor
	Access Arrangements
	Definitions for these types can be found above.
2	PY 2018 Amounts [\$M]
3	CY 2019 Amounts [\$M]
4	BY 2020 Amounts [\$M]

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Section C: Project Plan and Execution Data

Please see Section C of the Major IT Business Case Detail section (Project Plan and Execution Data) for instructions on submissions for Projects under the Project Plan and Execution Data for Network Standard Investment Reports. Network Standard Investments should only report those project and activity fields that are applicable to the Investment.

Project Table C.1

- Please see <u>Table C.1 of the Major IT Business Case Detail</u> section (Projects Table) for fields and instructions on submissions for Projects under the Project Plan and Execution Data for Network Standard Investment Reports. Examples of Projects that may be included in this table include:
- 1017 EIS transition
- 1018 Network consolidation initiatives

1019	Network cable replacement
	Project Activity Table C.2.1
1020 1021 1022 1023	Please see <u>Table C.2.1 of the Major IT Business Case Details</u> section (Project Activity Table) for fields and instructions on submissions for Activities (Non-iterative) under the Project Plan and Execution Data section of Network Standard Investment Reports as well as information on the reporting structure of Parent and Child Activities.
	Project Activity Table C.2.2
1024 1025 1026	Please see <u>Table C.2.2 of the Major IT Business Case Details</u> section (Project Activity Table Agile) for fields and instructions on submissions for Activities (iterative) under the Project Plan and Execution Data section of Network Standard Investment Reports.
	Section D: Performance Metrics
1027 1028 1029 1030	Please see <u>Section D of the Major IT Business Case Details</u> section (Performance Metrics) for instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Network Standard Investment Reports. Network Standard Investments should only report those metrics that are applicable to the Investment; Investments should report at least one metric.
	Operational Analysis Table D.1
1031 1032 1033	Please see <u>Table D.1 of the Major IT Business Case Details</u> section (Operational Analysis) for fields and instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Network Standard Investment Reports.
	Metrics Definition Table D.2
1034 1035 1036	Please see <u>Table D.2 of the Major IT Business Case Details</u> section (Metrics Definition) for fields and instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Network Standard Investment Reports.
	Metric Actual Results Table D.3
1037 1038 1039	Please see <u>Table D.3 of the Major IT Business Case Details</u> section (Metric Actual Results) for fields and instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Network Standard Investment Reports.
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17. Data Center and Cloud Standard Investment

- 1042 **Standard Investment Definition:** An IT investment for the provisioning of an enterprise-wide data
- 1043 center and/or cloud capability as defined by the TBM Data Center, Storage, and Compute IT Towers in
- 1044 Appendix C.

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- 1045 **Investment Usage:** Agencies should report Data Center and Cloud Standard Investments at the most
- granular level available, such as by data center or cloud procurement. If this level of granularity is not
- available, Agencies should report at the bureau or Agency level and include all relevant data centers
- and/or cloud procurements at this level of management. Non-tiered data centers should be reported as part
- of other investments by including costs within the Data Center IT Tower within the Agency IT Portfolio
- 1050 Summary.
- 1051 Standard Investment Report: Yes.
- 1052 This Data Center and Cloud Standard Investment Report is required for the FY 2020 cycle.
- Data centers should be broken down to separate investments at the finest granularity possible by the
- Agency. For federated agencies, at a minimum, this should be separated into individual investments for
- each component level organization. Data Center ID may include a list of Data Center IDs if this
- information is available for broken-out investments.³ This investment may include multiple data centers if
- the Agency is unable to break costs out separately and these data centers are managed together.
- For the 2020 budget year submissions, performance metrics and measures for Data Center and Cloud
- 1059 Investments shall continue to be calculated by OMB from Agencies' quarterly IDC data center inventory
- submissions, in order to reduce Agency burden and ensure consistency and fidelity of those metrics.
- 1061 OMB will leverage the "Data Center ID" to combine performance and spending data for each individual
- data center or cloud instance.
- 1063 *17.1 Tower Mapping*

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- The Data Center and Cloud Standard Investment Report type combines three TBM Framework IT Towers: Data Center, Compute, and Storage.
 - **Data Center:** Purpose-built data center facilities that house and protect critical IT equipment including the space, power, environment controls, racks, and cabling, and that require data center specific upkeep (commonly known as "smart hand" support).
 - Compute: Physical servers running a version of Microsoft's Windows Server or the Linux operating system; IBM AS/400 platform; servers running vendor-specific, proprietary Unix operating systems (e.g., IBM AIX, Sun Solaris, HP UX); and traditional mainframe computers and operations running legacy operating systems.
 - **Storage:** Offline storage resources used for archival, backup, and recovery efforts to prevent data loss or data corruption, support disaster recovery and compliance requirements of the distributed storage; includes mainframe offline storage (i.e., any storage resources used for archive, backup and recovery to support data loss, data corruption, disaster recovery, and compliance requirements of the mainframe storage).
- 1078 **Cloud:** spending may be included in these towers. In order to separate Cloud spending from these towers,

IDC Instructions.

³ These categorizations of data centers map to Agencies' quarterly IDC submissions, in which each record is identified as a tiered data center, a non-tiered data center, or a private-sector cloud instance, as per the definitions established in OMB M-16-19, "Data Center Optimization Initiative (DCOI)", August 1, 2016, https://obamawhitehouse.archives.gov/sites/default/files/omb/memoranda/2016/m 16 19 1.pdf, and in OMB's Quarterly

- the Investment Cost Details section of this report asks for the disaggregation of cloud spending from the
- other towers included in this Standard investment Report. Cloud spending includes, but is not limited to:
- 1081 Virtual servers running a version of Microsoft's Windows Server or the Linux operating system; includes
- hardware, software, labor, and support services and central storage such as SAN, NAS, and similar
- 1083 technologies for the distributed compute infrastructure; also includes the equipment, software, and labor
- to run and operate; includes mainframe online storage (i.e., attached storage arrays and the associated
- equipment, software, and labor) to run and operate.
- 1086 17.2 Scenario Mapping

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- Data Center and Cloud Standard Investment Reports shall be captured at the physical location where the
- data center is located or, for cloud environments, at the management unit operating the cloud
- infrastructure. If this level of granularity in reporting is not available, Standard Investment Reports should
- be captured at the bureau or Agency level. This shall include relevant tiered data centers, including those
- housing high-performance computing (HPC)⁴ capabilities. This standard Investment type will
- accommodate Agencies' different data center infrastructure configurations as follows:
 - A Single Tiered Data Center: In this scenario, the Agency is reporting this data center through the quarterly IDC with a Tier Classification equal to "Tiered". This data center requires a Data Center and Cloud Standard Investment Report. In addition, the Agency shall provide the Federal Real Property Profile ID (for physical data centers in owned or leased property) associated with their data center. Agencies with multiple tiered data centers shall submit spending on each data center data center separately.
 - A Tiered Data Center with High Performance Computing (HPC) Capabilities: In this scenario the Agency is reporting this data center through the quarterly IDC with a Tier Classification equal to "Tiered" and with a non-zero number of HPC nodes. This data center requires a Data Center and Cloud Standard Investment Report. In addition, the Agency shall provide the Federal Real Property Profile ID (for physical data centers in owned or leased property) associated with their data center with HPC capabilities.
 - Tiered Data Center with a Physical Location Connected to One or More Cloud Capabilities: In this scenario the Agency is reporting this data center through the quarterly IDC with a Tier Classification equal to "Tiered" and the facility is connected to one or more cloud capabilities. For example, an Agency might manage some resources in-house, while hosting other key parts of their IT infrastructure as a public or managed service (also known as a hybrid cloud). This data center requires a Data Center and Cloud Standard Investment Report.
 - A Data Center that Consumes Data Center Shared Services from another Agency: In this scenario the Agency is reporting this data center through the quarterly IDC with a Tier Classification equal to "Tiered" and the facility is connected to one or more cloud capabilities. As a result, the Agency would report spending associated with the Internal Services (i.e., federal managed service provider) cost pool.
 - A Data Center that Provides Data Center Shared Services to another Agency: Federal government data centers that are providing data center shared services to another federal government Agency shall incorporate their costs for each cost pool associated with the data center for each applicable sub-Tower.
 - A Cloud Data Center (also known as private-sector cloud or "the public cloud"): This scenario includes IaaS and PaaS as well as HPC-equivalent cloud implementations not located on Federal facilities. SaaS costs will be captured under the End User Investment. The Agency shall

⁴ Computing capabilities that are measured in floating point operations per second (FLOPS) typically either gigaFLOPS (10⁹) or teraFLOPS (10¹²).

- incorporate their cost for each cost pool associated with their cloud data center for each sub-Tower. Agencies with multiple cloud data centers shall report spending on each instance separately.
 - A Non-Tiered Data Center with a Physical Location: This scenario does not require submission of a Data Center and Cloud Standard Investment Report.

The "Data Center ID" identifier in OMB's Integrated Data Collection (IDC) will be used to connect
Agencies' data centers inventory and performance data. This will be combined with budget and spending
data that will be captured in their Data Center and Cloud Standard Investment and associated Investment
Reports to inform oversight and Investment decision-making by both the Agencies and OMB.

	Section A: General Information	
Column /Field	Description	
1	UII [12-digit primary key for all Investments]	
2	Data Center ID – The unique identifier from your Agency's data center inventory, which	
	is submitted to OMB on a quarterly basis in conjunction with the Integrated Data	
	Collection (IDC). Your Agency's Data Center and Cloud Standard Investment Report must	
	map to its corresponding IDC record by way of this identifier. To be put in contact with	
	your Agency's IDC submitters and obtain a list of your Agency's correct "Data Center	
	ID"s, email DataPointSupport@omb.eop.gov . Agencies should provide as many entries as	
	applicable.	

Section B: Investment Cost Details

The table below shall be reported for each of the tiered and cloud data centers in each Agency's inventory.

Column/Field	Description
1	Component
	Note: Accepted responses in this field will be limited to the areas described above,
	specifically:
	Data Center
	• Cloud
	• Storage
	• Compute
2	PY 2018 Amounts [\$M]
3	CY 2019 Amounts [\$M]
4	BY 2020 Amounts [\$M]

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- 1136 **18. End User Standard Investment**
- 1137 **Standard Investment Definition:** An IT investment for the provisioning of an enterprise-wide end user
- capability as defined by the TBM End User tower.
- 1139 **Investment Usage:** Agencies should report End User Standard Investments at the point of management.
- 1140 Standard Investment Report: Yes.
- Agencies have the ability to determine the most appropriate level/approach in reporting Investments in
- this section. The crucial requirement is that the Investments are reported where they are managed. If, for
- example, software is acquired and deployed at the enterprise level, then a single Investment identifying
- the software that is managed in that manner makes sense. If there is a bureau, component, mode or sub-
- Agency that acquires and manages other off the shelf software to meet a local requirement, those
- acquisitions and their budget should be reported separately.

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- The End User Investment Report should include costs and relevant information necessary for decision-making and management oversight of the Agency's End User portfolio which includes:
- Workspace
- Mobile Devices
- End User Software
- Network Printers
- Conferencing & AV
- 1155 IT Helpdesk
- **Deskside Support**

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For more information on these Sub-IT Towers, please reference the End User definition within Appendix D of the Guidance.

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- OMB memos on Category Management are listed in Appendix A. The desire is to capture End User performance data within the Category Management sections of the Integrated Data Collection (IDC)
- 1163 quarterly reporting process.

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The following are the sections of the End User Investment Report:

	Section A: General Information
Column /Field	Description
1	UII [12-digit primary key for all Investments]

1166

Section B: Investment Cost Details

The below table includes Investment components/sub-Towers (workspace, mobile devices, end user software, network printers, conferencing & AV, IT Helpdesk, Deskside Support). This Investment may not have all components/sub-Towers, please complete the table based upon what is applicable for the scope of this Investment. The budget definition helps with Agencies in portfolio reviews, and will allow for alignment to appropriate strategic sourcing solutions.

Column /Field	Description
1	End User Component
	<i>Note:</i> Accepted responses in this field will be limited to the areas described above,
	specifically:
	 Workspace
	Mobile Devices
	 End User Software
	Network Printers
	 Conferencing & AV
	IT Helpdesk
	Deskside Support
2	Total PY 2018 Amounts [\$M]
3	Total CY 2019 Amounts [\$M]
4	Total BY 2020 Amounts [\$M]

1173

Section C: Project Plan and Execution Data

- Please see Section C of the Major IT Business Case Detail section (Project Plan and Execution Data) for instructions on submissions for Projects under the Project Plan and Execution Data for End User Standard Investment Reports. End User Standard Investments should only report those project and activity fields
- that are applicable to the Investment.

Project Table C.1

- Please see <u>Table C.1 of the Major IT Business Case Detail</u> section (Projects Table) for fields and
- instructions on submissions for Projects under the Project Plan and Execution Data for End User Standard
- 1180 Investment Reports.

Project Activity Table C.2.1

- Please see <u>Table C.2.1 of the Major IT Business Case Details</u> section (Project Activity Table) for fields
- and instructions on submissions for Activities (Non- iterative) under the Project Plan and Execution Data
- section of End User Standard Investment Reports as well as information on the reporting structure of
- 1184 Parent and Child Activities.

Project Activity Table C.2.2

- Please see <u>Table C.2.2 of the Major IT Business Case Details</u> section (Project Activity Table Agile) for
- fields and instructions on submissions for Activities (iterative) under the Project Plan and Execution Data
- section of End User Standard Investment Reports.

1189	19. Output Standard Investment
1190 1191 1192	Standard Investment Definition: An Output Standard Investment is an IT investment for the provisioning of an enterprise-wide independently-managed output capability as defined by the TBM Output tower.
1193 1194 1195 1196	Investment Usage: An Output Standard Investment is created for each independently managed enterprise-wide output capability within an Agency. For example, several centrally-managed Agency print shops would call for one Output standard investment; several independently-managed Agency print shops would call for several Output standard investments.
1197	Standard Investment Report: No.
1198 1199 1200 1201	There is no Standard Investment Report for Output Standard Investments included in the FY 2020 cycle. However, the need for a Standard Investment Report will continue to be evaluated to determine whether additional information relating to this type of Standard Investment would provide useful and actionable data for OMB and agencies.

20. Application Standard Investment

- Standard Investment Definition: An IT investment for the provisioning of an enterprise-wide shared application capability based on the definition of the TBM Application tower to include sub-towers:
- 1205 Application Development, Application Support & Operations, and Business Software. Application
- resources shared across the enterprise (e.g., testing personnel, integrated development environments,
- testing software) are included. Application resources specific to program IT investments (e.g., dedicated
- analysts and programmers) are not included. Application resources, tools, and services associated with
- development projects for the enterprise application capability itself are included.
- 1210 **Investment Usage:** An Application Standard Investment is created for each independently managed
- 1211 enterprise-wide application capability within an Agency. For example, enterprise-wide application
- 1212 capabilities may be independently managed based on sub-agencies or technologies (e.g., mobile vs. web
- 1213 vs. mainframe). An Application Standard Investment is not created for an application capability that is
- provisioned as part of a program-specific IT investment. The expenditure of IT resources for such an
- 1215 Application capability is included with the program-specific IT investment. Application Part 3
- 1216 Investments may exist for some Agencies in instances where Agency-level software development work is
- provided as an intra- and/or inter-Agency service.

1218 Standard Investment Report: Optional.

1219 The Standard Investment Report for Application Standard Investments is available in the FY 2020 cycle.

Section A: General Information	
Column /Field	Description
1	UII [12-digit primary key for all Investments]

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1202

Section B: Investment Cost Details

- The below table includes Investment components/sub-Towers (Application Development, Application
- 1222 Support & Operations, and Business Software). This Investment may not have all components/sub-
- Towers, please complete the table based upon what is applicable for the scope of this Investment. The
- budget definition helps with Agencies in portfolio reviews, and will allow for alignment to appropriate
- strategic sourcing solutions.

Column /Field	Description
1	Application Component
	Note: Accepted responses in this field will be limited to the areas described above,
	specifically:
	Application Development
	 Application Support & Operations
	 Business Software
2	Total PY 2018 Amounts [\$M]
3	Total CY 2019 Amounts [\$M]
4	Total BY 2020 Amounts [\$M]

1226

Section C: Project Plan and Execution Data

- 1227 Please see Section C of the Major IT Business Case Detail section (Project Plan and Execution Data) for
- instructions on submissions for Projects under the Project Plan and Execution Data for Application
- 1229 Standard Investment Reports. Application Standard Investments should only report those project and
- activity fields that are applicable to the Investment.

1231	
	Project Table C.1
1232 1233 1234	Please see <u>Table C.1 of the Major IT Business Case Detail</u> section (Projects Table) for fields and instructions on submissions for Projects under the Project Plan and Execution Data for Application Standard Investment Reports.
	Project Activity Table C.2.1
1235 1236 1237 1238	Please see <u>Table C.2.1 of the Major IT Business Case Details</u> section (Project Activity Table) for fields and instructions on submissions for Activities (Non-iterative) under the Project Plan and Execution Data section of Application Standard Investment Reports as well as information on the reporting structure of Parent and Child Activities.
	Project Activity Table C.2.2
1239 1240 1241	Please see <u>Table C.2.2 of the Major IT Business Case Details</u> section (Project Activity Table Agile) for fields and instructions on submissions for Activities (iterative) under the Project Plan and Execution Data section of Application Standard Investment Reports.

21. Delivery Standard Investment

- 1243 **Standard Investment Definition:** An IT investment for the provisioning of an enterprise-wide shared
- delivery capability based on the definition of the TBM Delivery tower that includes enabling capabilities
- 1245 (e.g., Business Software). Delivery resources, products, and services shared across the enterprise (e.g.,
- 1246 PMO personnel, account managers) are included. Delivery resources, products, and services specific to a
- particular program IT investment (e.g., dedicated project managers and business analysts) or other
- 1248 Standard Investments are not included, as the focus of this Standard Investment is on multi-program and
- multi-operation centers.
- 1250 **Investment Usage:** A Delivery Standard Investment is created for each independently managed
- enterprise-wide delivery capability within an Agency (e.g., PMOs, Customer Relationship Management
- 1252 (CRM) operation centers). For example, enterprise-wide delivery capabilities may be independently
- managed based on sub-agencies or capability (e.g., IT service management vs. client management).

1254 Standard Investment Report: Optional.

1255 The Standard Investment Report for Delivery Standard Investments is available in the FY 2020 cycle.

Section A: General Information		
Column /Field	Description	
1	UII [12-digit primary key for all Investments]	

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Section B: Investment Cost Details

- The below table includes Investment components/sub-Towers (IT Service Management, Program,
- Product, & Project Management, Client Management, and Operations Center). This Investment may not
- have all components/sub-Towers, please complete the table based upon what is applicable for the scope of
- this Investment. The budget definition helps with Agencies in portfolio reviews, and will allow for
- alignment to appropriate strategic sourcing solutions.

Column /Field	Description
1	Delivery Component
	Note: Accepted responses in this field will be limited to the areas described above,
	specifically:
	IT Service Management
	 Program, Product, & Project Management
	Client Management
	Operations Center
2	PY 2018 Amounts [\$M]
3	PY 2018 Total Federal FTEs [Count]
4	PY 2018 Total Contractor FTEs [Count]
5	CY 2019 Amounts [\$M]
6	CY 2019 Total Federal FTEs [Count]
7	CY 2019 Total Contractor FTEs [Count]
8	BY 2020 Amounts [\$M]
9	BY 2020 Total Federal FTEs [Count]
10	BY 2020 Total Contractor FTEs [Count]

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Section C: Performance Metrics

FY 2020 IT Budget – Capital Planning Guidance

1264 1265 1266 1267 1268	Please see <u>Section D of the Major IT Business Case Details</u> section (Performance Metrics) for instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Delivery Standard Investment Reports. Delivery Standard Investments should only report those metrics that are applicable to the Investment; Investments should report at least one metric. Examples of Delivery performance metrics may include:
1269 1270 1271 1272 1273	 Customer satisfaction Cost benchmarks Network Operations Center monitoring Tier 2 and 3 Help Desk support efficacy
	Operational Analysis Table C.1
1274 1275 1276	Please see <u>Table D.1 of the Major IT Business Case Details</u> section (Operational Analysis) for fields and instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Delivery Standard Investment Reports.
	Metrics Definition Table C.2
1277 1278 1279	Please see <u>Table D.2 of the Major IT Business Case Details</u> section (Metrics Definition) for fields and instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Delivery Standard Investment Reports.
	Metric Actual Results Table C.3
1280 1281 1282	Please see <u>Table D.3 of the Major IT Business Case Details</u> section (Metric Actual Results) for fields and instructions on submissions for Performance Metrics and Metrics Actuals under the Performance Metrics section of Delivery Standard Investment Reports.
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1285	22. Platform Standard Investment
1286 1287 1288	Standard Investment Definition: An IT investment for the provisioning of an enterprise-wide platform capability as defined by the Platform tower to include sub-towers: database, middleware, mainframe database, and mainframe middleware, which were all previously under the Application Tower.
1289	Investment Usage: Agencies should report Platform Standard Investments at the point of management.
1290	Standard Investment Report: No.
1291 1292 1293 1294	There is no Standard Investment Report for Platform Standard Investments included in the FY 2020 cycle. However, the need for a Standard Investment Report will continue to be evaluated to determine whether additional information relating to this type of Standard Investment would provide useful and actionable data for OMB and agencies.

APPENDIX A. LEGAL REGULATORY AUTHORITIES

The Federal Government must effectively manage its portfolio of capital assets to ensure scarce public resources are wisely invested. Capital programming integrates the planning, acquisition, and management of capital assets into the Budget decision-making process. It is intended to assist Agencies in improving asset management and in complying with the results-oriented requirements of:

- The Federal Information Technology Acquisition Reform (FITARA) is Title VIII Subtitle D Sections 831-837 of <u>H.R.3979 Carl Levin and Howard P. "Buck" McKeon National Defense Authorization Act for Fiscal Year 2015.</u>
- The Clinger-Cohen Act of 1996, which requires Agencies to use a disciplined CPIC process to acquire, use, maintain, and dispose of IT in alignment with the Agency's EA planning processes.
 OMB policy for the management of Federal information resources is detailed in <u>Circular No. A-130 (P.L. 104-106)</u>, Management of Federal Information Resources.
- The Government Performance and Results Act (GPRA) of 1993, which establishes the foundation
 for Budget decision making to achieve strategic objectives in order to meet Agency mission
 objectives. Instructions for preparing strategic plans, annual performance plans, and annual
 program performance reports are provided in Part 6 of OMB Circular No. A-11, Section 220
 (P.L. 103-62).
- The <u>GPRA Modernization Act of 2010 (P.L. 111-352</u>), which requires quarterly performance assessments of Federal Government priorities and establishes Agency Performance Improvement Officers and the Performance Improvement Council.
- The Federal Managers Financial Integrity Act of 1982 (P.L. 97-255), Chief Financial Officers Act of 1990 (CFO Act) (P.L. 101-576), and Federal Financial Management Improvement Act of 1996 (P.L. 104-208), which require accountability of financial and program managers for financial results of actions taken, control over the Federal Government's financial resources, and protection of Federal assets. OMB policies and standards for developing, operating, evaluating, and reporting on financial management systems are contained in Circular No. A–127, Financial Management Systems and OMB Circular No. A-136.
- <u>The Paperwork Reduction Act of 1995 (P.L. 96-511)</u>, which requires Agencies to perform their information resources management activities in an efficient, effective, and economical manner.
- The Federal Information Security Management Act (FISMA) of 2014 (P.L. 113-283), which requires Agencies to integrate IT security into their capital planning and EA processes, conduct annual IT security reviews of all programs and systems, and report the results of those reviews to OMB.
- The E-Government Act of 2002 (P.L. 107–347), which requires Agencies to support Government-wide E-Government (E-Gov) initiatives and to leverage cross-Agency opportunities to further E-Gov. The Act also requires Agencies to establish a process for determining which government information the Agency intends to make available and accessible to the public on the Internet and by other means. In addition, the Act requires Agencies to conduct and make publicly available privacy impact assessments (PIAs) for all new IT Investments, administering information in an identifiable form collected from or about members of the public.
- The National Technology Transfer and Advancement Act of 1995 (P.L. 104-113) and OMB Circular No. A-119, which state that voluntary consensus standards are the preferred type of standards for Federal Government use. When it would be inconsistent with law or otherwise impractical to use a voluntary consensus standard, Agencies must submit a report to OMB through NIST describing the reason(s) for the Agency's use of government-unique standards in lieu of voluntary consensus standards.
- The Federal Records Act (44 U.S.C. Chapters 21, 29, 31, and 33), which requires Agencies to establish standards and procedures to ensure efficient and effective records management. The National Archives and Records Administration (NARA) issues policies and guidance for

- Agencies to meet their records management goals and requirements. NARA also provides policies and guidance for planning and evaluating Investments in electronic records management.
 - The Privacy Act of 1974 (5 U.S.C. § 552a), which is an omnibus "code of fair information practices" that attempts to regulate the collection, maintenance, use, and dissemination of personal information by Federal executive branch Agencies.
- NIST Special Publication 800-146 concepts and definitions regarding cloud computing.
- Recent OMB IT policies and guidance, including:
 - Federal Information Technology Shared Services Strategy
- The Common Approach to Federal Enterprise Architecture
- The Federal Enterprise Architecture, Version 2.0
 - Contracting Guidance to Support Modular Development
- The Federal Cloud Computing Strategy

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- <u>Digital Government Strategy: Building a 21st Century Platform to Better Serve the American People</u>
- Security Authorization of Information Systems in Cloud Computing Environments (FedRAMP)
- National Strategy for Information Sharing and Safeguarding
 - OMB memo M-13-08 Improving Financial Systems Through Shared Services
- OMB memo M-13-09 Fiscal Year 2013 PortfolioStat Guidance: Strengthening Federal IT
 Portfolio Management
 - OMB memo M-13-13 Open Data Policy-Managing Information as an Asset
 - OMB memo M-13-14 Fiscal Year 2016 Budget Guidance
 - OMB memo M-14-03 Enhancing the Security of Federal Information and Information Systems
- OMB memo M-14-08 Fiscal Year 2015 PortfolioStat
 - OMB memo M-15-14 Management and Oversight of Federal Information Technology
 - OMB memo M-16-11 Improving Administrative Functions Through Shared Services
 - Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance
 - Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management
 - Executive Order 13642, Making Open and Machine Readable the New Default for Government Information, May 9, 2013
 - Executive Order 13587, Structural Reforms to Improve the Security of Classified Networks and the Responsible Sharing and Safeguarding of Classified Information
 - Federal Acquisition Regulation, including subchapter B, parts 5 through 12 and part 23
- Federal Management Regulation, including subchapters B and C
- Energy Independence and Security Act of 2007 (P.L. 110-140), including sections 431 through 435 and 523 through 525
 - Energy and Policy Act of 2005 (P.L. 109–58), including sections 103, 104, 109, and 203
- The Modernizing Government Technology Act (P.L. No. 115-91, National Defense Authorization Act for Fiscal Year 2018, Title X, Subtitle G, §§ 1076 through 1078) establishes the centralized Technology Modernization Fund for technology-related activities to improve information technology and enhance cybersecurity across the Federal Government, and further authorizes Agency IT Working Capital Funds for similar purposes.

APPENDIX B. CODING INSTRUCTIONS FOR ADMINISTRATIVE AND MISSION SUPPORT SHARED OR CENTRALIZED SOLUTIONS

For Agencies' shared services Investments which are not included in the two tables below should be coded "48" for the "Shared Services Category" field in the IT Portfolio Summary.

E-Gov and LoB Initiative Investments (Category Code "24")				
E-Gov or LoB Initiative	Acronym	Responsible Agency	Includes	Identifier
Benefits.Gov	BG	Labor		0020
Budget Formulation and Execution LoB	BFELoB	Education		3200
Disaster Assistance Improvement Plan	DAIP	DHS/ FEMA		4100
E-Rulemaking		EPA		0060
Federal Health Architecture LoB*	FHALoB	HHS		1400
Financial Management LoB	FMLoB	Treasury	Former GMLoB	1100
FOIA Portal		Justice		0099
Geospatial LoB	GeoLoB	Interior		3100
Grants.Gov		HHS		0160
Human Resources LoB	HRLoB	OPM		1200
Integrated Award Environment	IAE	GSA	Former IAE- Loans & Grants	0230
Performance Management LoB	PMLoB	GSA		0900
Federal PKI Bridge	FPKI	GSA		0090
Recreation.Gov		USDA		0010
Security, Suitability, and Credentialing LoB	SSCLoB	OPM	New UII ending assigned for FY 2017 process.	1250
USAJOBS	USAJOBS	OPM	Former RecruitOnestop	1218

*The Federal Health Architecture LoB will be sunset at the end of FY 2018.

OMB M-16-11 defined shared service providers as providers designated by Treasury FIT or OPM

HRLOB previously and USSM going forward. The below table reflects existing USSM designated shared

1395 services as of 2018.

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1396 A Partner Agency should list its Investment as Type 04 Funding Transfer and report funding in the

Agency Funding fields. The Agency Lead should report their Investment as a Type 01 Major Investment

and reports funding from customers in the Agency Contribution fields.

Investment	Designate Provider	Shared Service	Acronym	Includes	Shared Services Identifier
Agency Accounting Services (AAS)	Treasury	Administrative Resource Center	ARC	Financial Management	1101
HR LoB - HR Connect	Treasury	Treasury Shared Service Center	TSSC	Core HR	1201
Defense Civilian Personnel Data System	DoD	Defense Civilian Personnel Advisory Service	DCPAS	Core HR	1202
Defense Civilian Pay System	DoD	Defense Finance and Accounting Service	DFAS	Payroll	1203
IBC FMLoB Shared Service Provider	DOI	Interior Business Center	IBC	Financial Management	1102
IBC Shared Service Center (HRLoB)	DOI	Interior Business Center	IBC	Core HR, Payroll	1204
DOTXX129: Delphi Version Two	DOT	Enterprise Services Center	ESC	Financial Management	1103
HHS Integrated Personnel Management Service	HHS	Program Support Center	PSC	Core HR	1205
Human Capital Information Technology Services	GSA	HRLoB Shared Service Center	HRLoB SSC	Core HR	1206
PAR (e-Payroll)	GSA	HRLoB Shared Service Center	HRLoB SSC	Payroll	1207
OCFO FSSP	USDA	National Finance Center	NFC	Financial Management	1104
OCFO-NFC Shared Services	USDA	National Finance Center	NFC	Core HR, Payroll	1208

APPENDIX C. DEFINITIONS

1401 The list of common IT Budget – Capital Planning definitions is provided below:

Term	Source Document	Definition
Adequate Incremental Development	OMB Memo M-15-14	For development of software or services, planned and actual delivery of new or modified technical functionality to users occurs at least every six (6) months.
Agency Chief Information Officer (CIO), as defined in statute	OMB Memo M-15-14	The CIO at the headquarters level of a department or establishment of the government as defined in Section 20 of OMB Circular A-11 (contrasts with "Bureau CIO").
Agency IT Modernization Working Capital Fund (IT Mod WCF)	OMB Memo M-18-12	Agency IT Mod WCFs are authorized to be established at CFO Act agencies to assist in improving, retiring, or replacing existing IT systems, or transitioning legacy systems to commercial solutions (and for other purposes).
Agency Lead (formerly Managing Partner)	2018 President's Management Agenda (PMA)	This term refers to the Agency Lead that is responsible for coordinating the implementation of the E-Gov or LoB initiative. The Agency Lead (formerly managing partner) maintains an IT shared or centralized service with approval by Agency leadership for Intra-Agency services and OMB for Inter-Agency services. The Agency Lead organization, often referred to as the Program Management Office (PMO), develops, implements, and maintains financial and service models as well as contracts with Customers and Suppliers using strategically sourced or best in class contracts whenever available. The Agency Lead PMO is responsible for the success of the IT shared service, and reports using metrics developed by the Federal Agency for its own Intra-Agency IT shared services as well as the governance and or interagency stakeholders. Agency Leads are accountable for delivering quality services as defined by stakeholders and/or OMB.
Agile Development	Agile Methodology	Software development that emphasizes interacting with people over rigorous process, working software instead of documentation, a focus on customer needs and learning from the experience of development.
Alternatives Analysis	Capital Programming Guide	This term refers to a method for addressing the various options for meeting the performance objectives of an Investment, including the return on Investment of the various options. The analysis is performed prior to the initial decision to implement a solution and updated periodically, as appropriate, to capture changes in the context for an Investment

Source Document	Definition
	decision. Alternatives Analysis should be
	performed for Investments with projects in the
	planning or DME stages, whereas strictly
	operational Investments should instead perform
	operational analyses until such time as a decision is
	made to re-evaluate the Investment or to resume
	development, modernization or enhancement. This
	terms refers to best practices outlined in the Capital
	Programming Guide under "I.4-Alternatives to
	Capital Assets" and "Evaluate Asset Options"
IT Budget - Capital Planning	API refers to a protocol intended to be used as an
Guidance	interface by software components to communicate
	with each other. An API is a library that may
	include specification for routines, data structures,
	object classes, and variables.
31 U.S.C. § 1513(b);	This term refers to an OMB-approved plan to use
	budgetary resources (31 U.S.C. § 1513(b);
	Executive Order 11541). It typically limits the
120	obligations you may incur for specified time
	periods, programs, activities, projects, objects, or
	any combination thereof. It may also place
	limitations on the use of other resources, such as
	FTEs or property. An apportionment is legally
	binding, and obligations and expenditures
	(disbursements) that exceed an apportionment are a
	violation of, and are subject to reporting under, the
	Antideficiency Act (31 U.S.C. § 1517(a)(1), (b)).
OMB Memo M-10-27	This term refers to the approved work breakdown
	structure, costs, schedule, and performance goals
	for a given Investment. For additional information
	on baselines and baseline management, see OMB
	Memo M-10-27, "Information Technology
	Investment Baseline Management Policy".
OMB Circular A-94;	Benefit-Cost Analysis refers to the recommended
Capital Programming Guide	technique to use in a formal economic analysis of
	government programs or projects. Guidance for
	Benefit-Cost Analysis is described in OMB
	Circular A-94.
OMB Circular A-11 Section	Authority provided by federal law to enter into
20.4	financial obligations that will result in immediate or
	future outlays involving Federal Government funds.
	The basic forms of budget authority include (1)
	appropriations, (2) borrowing authority, (3) contract
	authority, and (4) authority to obligate and expend
	offsetting receipts and collections.
OMB Circular A-11, Section	Budget Year (BY) is defined as "Agency Request"
	for the Initial Submission and "President's Budget
55	for the fillial Submission and Tresident's Budget
33	Request" for the President's Budget Submission.
	IT Budget - Capital Planning Guidance 31 U.S.C. § 1513(b); Executive Order 11541; OMB Circular A-11 Section 120 OMB Memo M-10-27 OMB Circular A-94; Capital Programming Guide OMB Circular A-11 Section 20.4

Term	Source Document	Definition
		resources (unless specifically indicating "Budget
		Authority) by year and include appropriations,
		borrowing authority, contract authority, spending
		authority from offsetting collections, transfers from
		other accounts, and carryover of unobligated
		balances.
Budgetary	OMB Circular A-11 Section	This term refers to an amount available to enter into
Resources	<u>20.3</u>	new obligations and to liquidate them. Budgetary
		resources are made up of new budget authority
		(including direct spending authority provided in
		existing statute and obligation limitations) and
		unobligated balances of budget authority provided
		in previous years. Direct spending authorities
		include appropriations and collections of fees
		authorized under 42 U.S.C. § 14953.
Bureau CIO	OMB Memo M-15-14	Official with the title or role of CIO within a
		principal subordinate organizational unit of the
		Agency, as defined in Section 20 of OMB Circular
		A-11, or any component organization of the
		Agency (contrasts with "Agency CIO").
Business	Business Reference Model,	This term refers to one of six (6) reference models
Reference	Version 3.1	of the Federal Enterprise Architecture. The BRM is
Model (BRM)		a classification taxonomy used to describe mission
		sectors, business functions, and services that are
		performed within and between Federal Agencies
		and with external partners. It provides a functional
		view of Federal Government organizations and
		their LoBs, including mission and support business
		services opportunities for collaboration, shared services, and solution reuse can be identified by
		mapping IT Investments to the BRM.
Capital Assets	Capital Programming Guide,	Capital Assets refer to land, structures, equipment,
Capital Assets	Appendix 1	intellectual property (e.g., software), and IT
	Appendix 1	(including the output of IT service contracts) that
		has been acquired by the Federal Government and
		have an estimated useful life of two years or more.
		See Appendix One (1) of the Capital Programming
		Guide for a more complete definition of capital
		assets.
Capital	IT Budget - Capital Planning	This term refers to the planning, development, and
Investment (or	Guidance	acquisition of a capital asset and the management
Investment)		and operation of that asset through its usable life
		after the initial acquisition. IT capital Investments
		may consist of one or more assets which provide
		functionality in an operational (production)
		environment.
Capital Planning	40 U.S.C. § 11302	This term refers to a decision-making process that
and Investment		ensures IT Investments integrate strategic planning,
Control (CPIC)		budgeting, procurement, and management of IT in

Term	Source Document	Definition
		support of Agency missions and business needs. The CPIC process has three distinct phases: Select, Control, and Evaluate. See 40 U.S.C. § 11302 for statutory requirements and Clinger-Cohen Act of 1996.
Capital Programming	IT Budget - Capital Planning Guidance	This term refers to an integrated process within an Agency that focuses on the planning, budgeting, procurement, and management of the Agency's portfolio of capital Investments to achieve the Agency's strategic goals and objectives with the lowest overall cost and least risk.
Cloud Computing	NIST Special Publication 800-145 - The NIST Definition of Cloud Computing	Cloud computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. Cloud computing promotes availability and is composed of five essential characteristics (On-demand self-service, Broad network access, Resource pooling, Rapid elasticity, Measured Service); three service models (Cloud Software as a Service (SaaS), Cloud Platform as a Service (PaaS), Cloud Infrastructure as a Service (IaaS)); and, four deployment models (Private cloud, Community cloud, Public cloud, Hybrid cloud). Key enabling technologies include: (1) fast wide-area networks, (2) powerful, inexpensive server computers, and (3) high-performance virtualization for commodity hardware (see NIST Special Publication 800-145 - The NIST Definition of Cloud Computing for official government definition).
Cloud Computing Spending	IT Budget - Capital Planning Guidance	This term refers to implementation and operational costs directly attributable to the cloud computing systems within the Investment for the specified year.
Cloud First Policy	OMB Memo M-13-09	This term refers to OMB's Cloud First policy, launched in December 2010, which is intended to accelerate the pace at which the government realizes the value of cloud computing by requiring Agencies to evaluate safe, secure cloud computing options before making any new Investments. Per the Federal Cloud Computing Strategy, Agencies should evaluate their technology sourcing plans to include consideration and application of cloud computing solutions as part of the budget process. Agencies should seek to optimize the use of cloud technologies in their IT portfolios to take full

Term	Source Document	Definition
		advantage of the benefits of cloud computing in
		order to maximize capacity utilization, improve IT
		flexibility and responsiveness, and minimize costs.
		When evaluating options for new IT deployments,
		OMB requires that Agencies default to cloud-based
		solutions whenever a secure, reliable, cost-effective
		cloud option exists. Additionally, Agencies shall
		continually evaluate cloud computing solutions
		across their IT portfolios, regardless of Investment
		type or life cycle stage.
Collaboration	FEA Framework, Version	Collaboration tools include all software and
Tools	<u>2.0</u>	services used to support digital collaboration (e.g.,
		wiki, social media services, document/file sharing,
		web conferencing solutions, and text messaging,
		desktop video conferencing solutions). Capabilities
		that allow for the concurrent, simultaneous
		communication and sharing of content, schedules,
		messages and ideas within an organization:
		Threaded Discussions support the running log of
		remarks and opinions about a given topic or
		subject; Document Library supports the grouping
		and archiving of files and records on a server;
		Shared Calendaring allows an entire team as well as
		individuals to view, add and modify each other's
		schedules, meetings and activities; Task
		Management supports a specific undertaking or
		function assigned to an employee.
		Costs include all IT related to the collaboration collision including software licenses, sorror
		solution including software licenses, server, communications, and specialized hardware
		equipment, data center allocation / charges, storage,
		backup solution, and contractors.Does NOT include IT costs related to e-mail,
		office productivity software (e.g., office software
		suites, groupware, e-mail clients), or services for
		which the Agency does not pay (e.g., OMB MAX).
		• Does NOT include IT costs associated with
		conference-room audio or video teleconferencing as
		these are included under telecommunications.
Commodity IT	OMB Memo M-11-29;	This term refers to a category of back-office IT
	OMB Memo M-12 -10;	services whose functionality applies to most, if not
	Federal IT Shared Services	all, Agencies (e.g., infrastructure and asset
	Strategy	management, e-mail, hardware and software
		acquisition, and help desks). This also relates to
		OMB's PortfolioStat initiative and a CIO-lead
		business approach to the delivery of IT
		infrastructure, enterprise IT, and
		administrative/business systems that emphasizes
		pooling Agencies' purchasing power across their
		entire organization through shared services as a

Term	Source Document	Definition
		provider or consumer, instead of standing up separate independent services to eliminate duplication, rationalize the Agency's IT Investments, and drive down costs. There are three categories of Commodity IT: • Enterprise IT – Items that pertain to this are: E-mail; Collaboration; Identity and Access Management; IT Security (Not Identity and Access Mgmt.); and Web Hosting, Infrastructure, and Content. • IT Infrastructure - Items that pertain to this are: Desktop Systems; Mobile Devices; Mainframes and Servers; and Telecommunications. • Business Systems - Items that pertain to this are: Financial Management; Human Resources Management; Grants-Related Federal Financial Assistance; Grants-Related Transfer to State and Local Governments.
Community Cloud	NIST Special Publication 800-145 - <u>The NIST</u> <u>Definition of Cloud</u> <u>Computing</u>	This term refers to cloud computing technology in which the cloud infrastructure is provisioned for exclusive use by a specific community of consumers from organizations that have shared concerns (e.g., mission, security requirements, policy, and compliance considerations). It may be owned, managed, and operated by one or more of the organizations in the community, a third party, or some combination of them, and it may exist on or off premises (see NIST Special Publication 800-145 -The NIST Definition of Cloud Computing.
Contributions (or Expected Contributions)	IT Budget - Capital Planning Guidance	This term refers to both monetary contributions or a dollar-equivalent of In-kind services and fees for services provided by a partner Agencies/sub-Agencies to managing partners or shared service providers. Contributions can collected from partner Agencies or partner sub-Agencies by either Multi-Agency collaborations or Intra-Agency shared services. • Contributions represents the sum portion for all funds collected by the SMO of the shared service. • Fee-for-service (a type of contribution) are typically use the Economy Act, 31 U.S.C. § 1535 as the authorization for the transfer of funds. Other monetary contributions or in-kind equivalents contributions typically use the Clinger-Cohen Act of 1996, 40 U.S.C. § 1424.
Cost	Capital Programming Guide	Defined in Statement of Federal Financial Accounting Concepts (SFFAC) No. 1, Objectives of Federal Financial Reporting, as the monetary value of resources used. Defined more specifically

Term	Source Document	Definition
		in Statement of Federal Financial Accounting
		Standards (SFFAS) No. 4, Managerial Cost
		Accounting Concepts and Standards for the Federal
		Government, as the monetary value of resources
		used or sacrificed or liabilities incurred to achieve
		an objective, such as to acquire or produce a good
		or to perform an activity or service. Depending on
		the nature of the transaction, cost may be charged to
		operations immediately (i.e., recognized as an
		expense of the period) or to an asset account for
		recognition as an expense of subsequent periods. In
		most contexts within SFFAS No. 7, Accounting for
		Revenue and Other Financing Sources, "cost" is
		used synonymously with expense.
Cost Avoidance	OMB Circular A-131	An action taken in the immediate time frame that
Costilitoramics		will decrease costs in the future. For example, an
		engineering improvement that increases the mean
		time between failures and thereby decreases
		operation and maintenance costs is a cost avoidance
		action (as defined in OMB Circular A-131).
Cost Savings	OMB Circular A-131	Cost Saving refers to the reduction in actual
Cost Savings	ONID CHECKER IT 191	expenditures to achieve a specific objective (as
		defined in OMB Circular A-131).
Current Year	OMB Circular A-11, Section	Current Year (CY) is defined as "Likely/Enacted"
(CY)	55	for the Initial Submission and "Likely/Enacted" for
(01)	33	the President's Budget Submission. These amounts
		should only reflect budgetary resources by year and
		include appropriations, borrowing authority,
		contract authority, spending authority from
		offsetting collections, transfers from other accounts,
		and carryover of unobligated balances.
Data Center	OMB Memo M-16-19	"For the purposes of this memorandum, rooms with
Data Center	ONID MEMO WI 10 17	at least one server, providing services (whether in a
		production, test, staging, development, or any other
		environment), are considered data centers.
		However, rooms containing only print servers,
		routing equipment, switches, security devices (such
		as firewalls), or other telecommunications
		components shall not be considered data centers."
Dataset	OMB Memo M-13-13	This term refers to a collection of structured data
2 414501	<u> </u>	presented in tabular or non-tabular form (per OMB
		M-13-13 Open Data Policy-Managing Information
		as an Asset).
Defense	IT Budget - Capital Planning	DAWIA of 1990 (P.L. 101-510) refers to a
Acquisition	Guidance	congressional act that established for the
Workforce		Department of Defense an Acquisition Corps to
Improvement		professionalize the acquisition workforce in the
Act (DAWIA)		DoD through education, training, and work
of 1990 (P.L.		experience.
51 1775 (I.D.		

Term	Source Document	Definition
101-510)		
Dependency	IT Budget - Capital Planning Guidance	Dependency refers to the identification of relationships between projects and operational assets within an Investment as well as the identification of relationships between Investments. Action taken by one affects the other. Identification of dependencies is critical to the management of project, program, and portfolio risk.
Development, Modernization, and Enhancement (DME)	IT Budget - Capital Planning Guidance	DME refers to projects and activities leading to new IT assets/systems, as well as projects and activities that change or modify existing IT assets to substantively improve capability or performance, implement legislative or regulatory requirements, or meet an Agency leadership request. DME activity may occur at any time during a program's life cycle. As part of DME, capital costs can include hardware, software development and acquisition costs, commercial off-the-shelf acquisition costs, government labor costs, and contracted labor costs for planning, development, acquisition, system integration, and direct project management and overhead support.
Disposition Cost	IT Budget - Capital Planning Guidance	Disposition Cost refers to the cost of retiring a capital asset once its useful life is completed or a replacement asset has superseded it; disposition costs may be included in operational activities near the end of the useful life of an asset.
Earned Value Management (EVM)	American National Standards Institute (ANSI)/Electronic Industries Alliance (EIA) Standard–748–1998, Earned Value Management Systems. Additional information on EVMS is available at www.acq.osd.mil/evm .	EVM refers to an integrated management system that coordinates the work scope, schedule, and cost goals of a program or contract, and objectively measures progress toward these goals. EVM is a tool used by program managers to: (1) quantify and measure program/contract performance, (2) provide an early warning system for deviation from a baseline, (3) mitigate risks associated with cost and schedule overruns, and (4) provide a means to forecast final cost and schedule outcomes. The qualities and operating characteristics of earned value management systems (EVMS) are described in American National Standards Institute (ANSI)/Electronic Industries Alliance (EIA) Standard–748–1998, Earned Value Management Systems. Additional information on EVMS is
E-mail	FEA Framework, Version 2.0	available at www.acq.osd.mil/evm . Electronic mail is the exchange of computer generated and stored messages by

Term	Source Document	Definition
		telecommunication. An e-mail can be created manually via messaging applications or dynamically/programmatically such as automated response systems. For Agencies that have outsourced e-mail services to another Agency or vendor, this is the obligation for e-mail related costs. • Costs should include the full cost of the e-mail solution including software licenses, server and communications hardware, equipment, data center allocation/charges, storage, backup solution, and contractors. • Does not include the cost of the end user client computing device/software or the telecommunications cost for the LAN/WAN/wireless costs.
Enterprise Architecture (EA)	OMB Circular A-130	This term refers to the strategic, business, and technology and documentation of the current and desired relationships among business and management processes and IT of an organization. An EA includes the rules and standards and systems life cycle information to optimize and maintain the environment which the Agency wishes to create and maintain through its IT portfolio. An EA must provide a strategy that enables the Agency to support its current state and provides a roadmap for transition to its target environment. An EA defines principles and goals and sets a direction on such issues as the promotion of interoperability, open systems, publics access, end-user satisfaction, and IT security.
Enterprise Roadmap	OMB Memo M-13-09	This term refers to a document that describes the business and technology plan for the entire organization using EA methods. The Roadmap provides current views, future views, and transition plans at an appropriate level of detail for all IT Investments, services, systems, and programs. The Enterprise Roadmap also contains an IT asset inventory using the FEA Reference Models and other attachments or appendices for CPIC, EA, shared service, and other planning products requested by OMB that provide additional information regarding Roadmap plans.
Epic	Agile Methodology	A container for large initiatives or functionalities that typically require multiple releases to implement. Epics represent the key strategic direction of a program or enterprise that affects the systems supporting the program or enterprise. Epics are decomposed as part of the backlog refinement

Term	Source Document	Definition
		process into features and user stories.
Evaluation (by	IT Budget - Capital Planning	This term refers to the CIO's best judgment of the
Agency CIO)	Guidance	current level of risk for an Investment in terms of
		its ability to accomplish its goals (40 U.S.C. §
		11315(c)(2)). The evaluation should be informed by
		the following factors, including, but not limited to:
		risk management, requirements management,
		contractor oversight, historical performance, human
		capital and other factors that the CIO deems
		important to the forecasting future success. Each evaluation should include narrative to
		address/explain the rating. This is particularly
		important whenever the rating has changed since
		the last evaluation.
FEA Mapping	FEA Framework, Version	This term refers to the unique identifiers for the
Codes	2.0	information contained in the FEA Reference
Codes	<u>2.0</u>	Models. The mapping codes are used to align
		information reported by Agencies back to a
		common FEA taxonomy. Use of the Reference
		Models provides a common vocabulary and
		framework to relate information captured across the
		Federal Government. The first three-digit code
		indicates the primary service area served by this
		Investment (the three-digit BRM service code). The
		second through fifth three-digit codes indicate the
		secondary services associated with this Investment.
		Guidance on the codes for these mappings can be
		found at FEA Reference Model document library.
Federal	FAC-P/PM	Federal Acquisition Certification for Program and
Acquisition		Project Managers (FAC-P/PM) refers to a
Certification for		certification program that was established to clearly
Program and		identify general training and experience
Project		requirements for program and project managers
Managers		(PMs) in civilian Agencies. The FAC-P/PM focuses
(FAC-P/PM)		on essential competencies needed for program
		managers and PMs. The certification program does
		not include functional or technical competencies,
		such as those for IT or Agency-specific competencies. Defense Agencies have a similar
		certification program under DAWIA. Agencies
		were required to be compliant with FAC-P/PM
		starting in FY 2008. Available levels are
		Entry/Apprentice, Mid/Journeyman, and
		Expert/Advanced for FAC-P/PM and 1, 2, and 3 for
		DAWIA.
Federal	IT Budget - Capital Planning	This term refers to a business-based documentation
Enterprise	Guidance	and analysis framework for Agency and
Architecture		government-wide improvement. The FEA provides
(FEA)		standardized methods to describe the relationship

Term	Source Document	Definition
		between an Agency's strategic goals, business functions, and enabling technologies at various levels of scope and complexity. The FEA is comprised of documentation in six domain areas (strategic goals, business services, data and information, systems and applications, infrastructure, and security) that includes required and elective artifacts. More information about the FEA is available in The Common Approach to Federal Enterprise Architecture (OMB, May 2, 2012) and at FEA Reference Model document library.
Federal Information System	OMB Circular A-130	An information system used or operated by an Agency, by a contractor of an Agency, or by another organization on behalf of an Agency.
Federal IT Dashboard (ITDB)	www.itdashboard.gov	This term refers to a website (www.itdashboard.gov) that enables Federal Agencies, industry, the general public, and other stakeholders to view details regarding the performance of Federal IT Investments. The ITDB is used by the Administration and Congress to inform budget and policy decisions.
Financial Management Systems	OMB Circular A-123, Appendix D (formerly OMB Circular A-127).	This term refers to systems necessary to support financial management, including automated and manual processes, procedures, controls, data, hardware, software, and support personnel dedicated to the operation and maintenance of system functions. The following are examples of financial management systems: core financial systems, procurement systems, loan systems, grants systems, payroll systems, budget formulation systems, billing systems, and travel systems (see OMB Circular A-127 for additional information and guidance).
Full Funding	OMB Circular A-11, Section 31.5	Full Funding means appropriations are enacted sufficient to complete a useful segment of a capital project or Investment (or the entire project or Investment, if it is not divisible into useful segments) before any obligations for the useful segment (or project or Investment) may be incurred. Incrementally funding the planning and acquisition of capital assets (or useful segments), without certainty if or when future funding will be available, can result in poor planning, inadequate justification of asset acquisition, higher acquisition costs, cancellation of projects, the loss of sunk costs, or inadequate funding to maintain and operate the assets. Requests for procurement programs must provide for full funding of the entire

Term	Source Document	Definition
		cost (see Section 31.5 of OMB Circular A-11 and
		the Capital Programming Guide).
Functional/Busi	IT Budget - Capital Planning	This term refers to the Agency official who is
ness Sponsor	<u>Guidance</u>	responsible for the program or function supported
		or implemented by the Investment (44 U.S.C. §
		3501 (a) (4)).
		The sponsor is responsible for expressing the value
		of, ensuring successful implementation of, and
		providing accurate and timely data for the IT
		Investment to the Agency CIO and OMB. The
		designated person may (or may not) be the same as
		the "Business Process owner/Subject Matter
		Expert" serving on the IPT. Each major and non-
		major IT Investment must include the name of the functional/business sponsor as well as the
		individual's title.
Funding	Capital Programming Guide	There are two types of funding for projects:
Tunumg	Capital Frogramming Guide	(1) Full funding means that appropriations are
		enacted that are sufficient in total to complete a
		useful segment of a capital project (Investment)
		before any obligations may be incurred for that
		segment. When capital projects (Investments) or
		useful segments are incrementally funded, without
		certainty if or when future funding will be
		available, it can result in poor planning, acquisition
		of assets not fully justified, higher acquisition costs,
		projects (Investments) delays, cancellation of major
		projects (Investments), the loss of sunk costs, or
		inadequate funding to maintain and operate the
		assets. Budget requests for full acquisition propose
		for full funding.
		(2) Incremental (annual) funding means that
		appropriations are enacted that only fund an annual
		or other part of a useful segment of a capital project (Investment). OMB or the Congress may change
		the Agency's request for full finding to incremental
		funding in order to accommodate more projects in a
		year than would be allowed with full funding.
Funding Source	IT Budget - Capital Planning	Funding Source refers to the direct appropriation or
	Guidance	other budgetary resources an Agency receives for
		an IT Investment. When "original paying accounts"
		within Agencies are transferring resources to a
		different Agency account that ultimately supports
		the IT Investment (for example, when bureau
		accounts are paying into a central CIO office
		account or a working capital fund), the funding
		source provided in Agency IT Investment Portfolio
		should be the account that ultimately pays contracts
		and other costs for the Investment directly (not the

Term	Source Document	Definition
		original account(s) for the funds); the point of execution. Note: For Agencies on the ITDB, funding sources are planned as the primary drivers in the algorithm to display "spending by bureau," rather than using the bureau code associated with Investments. It is critical that valid OMB Budget Account (funding source) codes be provided for
Funding Transfer Investment	IT Budget - Capital Planning Guidance	each funding source in Agency submissions. This term refers to the portion of funding a partner Agency provides funding contributions to another IT Investment. The description of the IT Investment should indicate the UII of the Agency Lead's Investment.
Government Information	OMB Circular A-130	Government Information refers to information created, collected, processed, disseminated, or disposed of by or for the Federal Government.
Gross Savings	IDC	The amount of cost savings (per Circular A-131) on an annual basis without taking into account the one-time costs of implementing the cost savings or cost avoidance strategy (as defined in OMB Circular A-131).
Help desk (End User Support)	FEA Business Reference Model v 3.1	Help Desk Services involves the operation of a service center to respond to government and contract employees' end user device and software support needs (includes, but is not limited to, costs related to employees, contractors, and ticket management software).
Hybrid Cloud	NIST Special Publication 800-145 - The NIST Definition of Cloud Computing	Cloud computing technology in which the cloud infrastructure is a combination of two or more distinct cloud infrastructures (private, community, or public) that remain unique entities, but are bound together by standardized or proprietary technology that enables data and application portability (e.g., cloud bursting for load balancing between clouds) (see NIST Special Publication 800-145 - The NIST Definition of Cloud Computing for official government definition).
Identity and Access Management	OMB Circular A-11 (2010)	Includes funding of activities required to implement HSPD-12 and the Federal Identity, Credentialing and Access Management (FICAM) roadmap segment architecture requirements as directed by OMB. This includes but is not limited to HSPD-12 PIV Card deployment and operations, logical PIV Card access implementations, to include network and application access, identity management systems, physical access control systems, etc. • Costs include all IT related to identity and access management including cost of PIV cards, certificates, software licenses, server and

Term	Source Document	Definition
		communications hardware, equipment, data
		center allocation/charges, storage, backup
		solution and contractors.
Information	44 U.S.C. § 3506(b)(2);	IRM Strategic Plan refers to a document that
Resources	OMB Circular A-130	addresses all information resources management of
Management		an Agency. Agencies must develop and maintain
(IRM) Strategic		their IRM strategic plans as required by 44 U.S.C. §
Plan		3506(b)(2) and OMB Circular A-130. IRM strategic
		plans should support the Agency's strategic plan
		that is required in OMB Circular A-11; provide a
		description of how information resources
		management activities help accomplish the Agency's missions delivery area and program
		decisions; and ensure IRM decisions are integrated
		with management support areas, including
		organizational planning, budget, procurement,
		financial management, and human resources
		management.
Information	OMB Memo M-04-25	This term refers to all functions pertaining to the
Security		protection of federal information and information
		systems from unauthorized access, use, disclosure,
		disruptions, modification, or destruction, as well as
		the creation and implementation of security
		policies, procedures and controls. It includes the
		development, implementation, and maintenance of
		security policies, procedures, and controls across
		the entire information life cycle. These functions
		should include implementation and activities associated with NIST 800-37, Security Awareness
		training (but not the technical infrastructure
		required for the delivery of training), FISMA
		compliance reporting, development of a security
		policy, and security audits and testing.
		• IT security should include systems that oversee
		Agency IT needs.
		 Do Not Include IT costs related to Identity or
		Access Management systems/solutions.
		 Do Not Include physical protection of an
		organization (e.g., guards, cameras, and facility
		protection).
Information	44 U.S.C. § 3502;	Information System refers a discrete set of
System	OMB Circular A-130	information resources organized for the collection,
		processing, maintenance, use, sharing, transmission, or dissemination of information, in accordance with
		defined procedures, whether automated or manual
		(see <u>Circular A-130</u> and <u>44 U.S.C.</u> § 3502).
Information	OMB Memo M-15-14	(see <u>Circular A-130</u> and <u>44 0.3.C. § 3502).</u> IT is defined as:
Technology (IT)	ONID MICHO WI-13-14	A. Any services or equipment, or interconnected
		system(s) or subsystem(s) of equipment, that are
		zjzzzzi(z) zz zazzjzzzii(z) zz egaipineni, mat me

Term	Source Document	Definition
		used in the automatic acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information by the Agency; where B. such services or equipment are 'used by an Agency' if used by the Agency directly or if used by a contractor under a contract with the Agency that requires either use of the services or equipment, or requires either use of the services or equipment to a significant extent in the performance of a service or the furnishing of a product. C. IT includes computers, ancillary equipment (including imaging peripherals, input, output, and storage devices necessary for security and surveillance), peripheral equipment designed to be controlled by the central processing unit of a computer, software, firmware and similar procedures, services (including provisioned services such as cloud computing and support services that support any point of the life cycle of the equipment or service), and related resources. D. IT Includes High Performance Computing (HPC) capabilities including capabilities that are not commodity in nature. E. IT does not include any equipment that is acquired by a contractor incidental to a contract that
Infrastructure as a Service (IaaS) Cloud Computing	NIST Special Publication 800-145 - The NIST Definition of Cloud Computing	does not require use of the equipment. The capability provided to the consumer to provision processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications. The consumer does not manage or control the underlying cloud infrastructure but has control over operating systems, storage, and deployed applications; and possibly limited control of select networking components (e.g., host firewalls) (see NIST Special Publication 800-145 - The NIST Definition of Cloud Computing for official government definition).
Inter-Agency Acquisition	31 U.S.C. § 1535	Inter-Agency Acquisition refers to the use of the Federal Supply Schedules; a Multi-Agency contract (i.e., a task order or delivery order contract established by one Agency for use by multiple government Agencies to obtain supplies and services, consistent with the Economy Act, 31 U.S.C. § 1535) or a government-wide acquisition contract (i.e., a task order or delivery order contract for IT established by one Agency for Government-

Term	Source Document	Definition
		wide use operated by an executive agent, as designated by OMB pursuant to Section 11302(3) of the Clinger-Cohen Act of 1996).
Integrated Program/ Project Team (IPT)	Capital Programming Guide	A multi-disciplinary team led by a program/project manager responsible and accountable for planning, budgeting, procurement and life-cycle management of the Investment to achieve its cost, schedule, and performance goals. Team skills include: budgetary, financial, capital planning, procurement, user, program, architecture, earned value management, security, and other staff as appropriate. In order for OMB to approve the Investment budget, an IPT must include at a minimum: a qualified, fully dedicated IT program manager; a contracting specialist, if applicable; an IT specialist; an IT security specialist; and a business process owner or subject matter expert (SME). Other members of the IPT might include enterprise architects; IT specialists with specific expertise in data, systems, or networks; capital planners; or performance specialists. Key members of the IPT should be colocated during the most critical junctures of the program, to the maximum extent possible. Agencies should establish IPT members' individual performance goals to hold team members accountable for both individual functional goals and the overall success of the program. The Investment IPT should be defined in a program or an IPT charter.
IT Asset	Capital Programming Guide	This term refers to anything (tangible or intangible) that has value to an organization, including, but not limited to: a computing device, IT system, IT network, IT circuit, software (both an installed instance and a physical instance), virtual computing platform (common in cloud and virtualized computing), and related hardware (e.g., locks, cabinets, keyboards) as well as people and intellectual property (including software). Assets are the lowest level at which IT is planned, acquired, implemented, and operated.
IT Investment	OMB Circular A-11 Section 55	This term refers to the expenditure of IT resources to address mission delivery and management support. An IT Investment may include a project or projects for the development, modernization, enhancement, or maintenance of a single IT asset or group of IT assets with related functionality, and the subsequent operation of those assets in a production environment. All IT Investments should have a defined life cycle with start and end dates,

Term	Source Document	Definition
		with the end date representing the end of the
		currently estimated useful life of the Investment,
		consistent with the Investment's most current
		alternatives analysis if applicable.
		When the asset(s) is essentially replaced by a new
		system or technology, the replacement should be
		reported as a new, distinct Investment, with its own
		defined life cycle information.
IT Migration	IT Budget - Capital Planning	This term refers to the migration costs associated
Investment	Guidance	with systems in a Shared Service partner Agency
111,0001110110	<u>Garage</u>	that are not captured by the Agency Lead when the
		partner Agency is migrating to the shared system.
		The description of the IT Investment should
		indicate the UII of the major IT Investment of the
		managing partner.
IT Program	IT Budget - Capital Planning	IT Program Managers and IT Project Managers
Managers and	Guidance	refers to the IPT members responsible for IT
IT Project	Guidance	Investments and lead the required IPT for the
Managers		Investments and lead the required if T for the Investment. In some cases, IT program managers
Wanagers		and PMs can hold positions in other classification
		series; however they must still meet the requisite
		Federal certification and/or IT program
		management experience requirements. Further
		definitions are available in the Office of Personnel
		Management's Job Family Standard for
		Administrative Work in the Information
		Technology Group (series 2200 in the Federal
		Classification and Job Grading Systems).
IT Resources	OMB Memo M-15-14	IT Resources is defined as:
TI Itosources	OTHE MEMO MI 13 11	Transcarees is defined as:
		A. All Agency budgetary resources, personnel,
		equipment, facilities, or services that are primarily
		used in the management, operation, acquisition,
		disposition, and transformation, or other activity
		related to the life cycle of IT;
		related to the fire eyele of 11,
		B. acquisitions or Inter-Agency agreements that
		include IT and the services or equipment provided
		by such acquisitions or Inter-Agency agreements;
		but
		C. does not include grants to third parties which
		establish or support IT not operated directly by the
		Federal Government.
IT Service	ISO 20000	A means of delivering IT, in combination with any
		inherent people or processes, of value to customers
		by facilitated outcomes customers want to achieve
		without the ownership of specific costs and risks.
		(See: <u>ISO 20000</u>)
		(~~~·

Term	Source Document	Definition
Term IT Systems for National Security Iteration / Sprint	Agile Methodology	Any telecommunications or information system operated by the United States Government, the function, operation, or use of which: 1. involves intelligence activities; 2. involves cryptologic activities related to national security; 3. involves command and control of military forces; 4. involves equipment that is an integral part of a weapon or weapons system; or 5. subject to subsection (b), is critical to the direct fulfillment of military or intelligence missions. (b) LIMITATION. Subsection (a)(5) does not include a system that is to be used for routine administrative and business applications (including payroll, finance, logistics, and personnel management applications). National Security Systems are required to report as a part of the Capital Planning process. A distinct sequence of activities with a baselined
Legacy Information Technology System	Modernizing Government Technology Act (MGT Act); National Defense Authorization Act (NDAA Act)	plan and valuation criteria resulting in a release. An outdated or obsolete system of information technology.
Life Cycle Costs	Capital Programming Guide; OMB Circular A-131	Life Cycle Costs refers to all Investment costs (including government FTEs) from the commencement of the Investment through its estimated useful life (or the composite estimated useful life of the assets within the Investment), independent of the funding source (e.g., revolving fund, appropriated fund, working capital fund, trust fund). For more information about life cycle costs, see the Capital Programming Guide of OMB Circular A-11 and OMB Circular A-131.
Local-Area Network (LAN)	IT Budget - Capital Planning Guidance	Physical and wireless local area network connecting equipment within the core data centers and connecting end users in office working areas to the company's broader networks.
Maintenance	Federal Accounting Standards Advisory Board Statement of Federal Financial Accounting Standards Number 10	Maintenance refers to the activity necessary to keep an asset functioning as designed during the O&M phase of an Investment. Maintenance activities may also include, but are not limited to, operating system upgrades, technology refreshes, and security patch implementations. Some maintenance activities should be managed as projects and reported in Section B of Major IT Investment Update. As defined in the Federal Accounting Standards Advisory Board Statement of Federal

Term	Source Document	Definition
		Financial Accounting Standards Number 10,
		maintenance excludes activities aimed at expanding
		the capacity of an asset or otherwise upgrading it to
		serve needs different from or significantly greater
		than those originally intended.
Major IT	OMB Memo M-15-14	An IT Investment in Part 1 and Part 2 of the IT
Investment		Portfolio requiring special management attention
		because of its importance to the mission or function
		to the government; significant program or policy
		implications; high executive visibility; high
		development, operating, or maintenance costs;
		unusual funding mechanism; or definition as major
		by the Agency's CPIC process. Agencies should
		also include all "major automated information
		system" as defined in 10 U.S.C. § 2445 and all
		"major acquisitions" as defined in the OMB
		Circular A-11 Capital Programming Guide
		consisting of information resources. OMB may
		work with the Agency to declare IT Investments as
		major IT Investments. Agencies must consult with
		assigned OMB desk officers and Resource
		Management Offices (RMOs) regarding which
		Investments are considered "major." Investments
		not considered "major" are "non-major."
Mobile Devices	OMB Circular A-11 (2010)	Total non-desktop, non-laptop, small form factor
		wireless end user device costs, including: hardware
		(including handsets, tablets, and wireless modems
		such as air cards), software, labor, maintenance, and
		service (including network service, such as cellular
		voice and data plans). Help desk costs should not be
		included here.
Modular	Contracting Guidance to	An approach that focuses on the delivery of specific
Development	Support Modular	Investments, projects, or activities of an overall
	Development, June 14, 2012	capability by progressively expanding upon
		delivered capabilities until the full capability is
		realized. Investments may be decomposed into
		discrete projects, increments, or useful segments,
		each of which is undertaken to develop and
		implement products and capabilities that the larger
		Investment delivers. For more information, see
		Contracting Guidance to Support Modular
		Development (OMB, June 14, 2012).
Net Savings	OMB Circular A-131	The amount of cost savings (per <u>Circular A-131</u>)
		minus the cost required to implement and operate
		the cost savings or cost avoidance strategy.
Network storage	OMB Circular A-130	Applies to any data processing environment (such
		as production, backup, DR/COOP, test,
		development, etc.) and includes:
		• Hardware (storage controllers, storage servers):

Term	Source Document	Definition
1 erm	Source Document	Includes all dedicated storage hardware devices such as controllers, servers, disk arrays, tape libraries, and optical jukeboxes, as well as supplies (media) used to store data offline such as tapes. • Software: Includes software dedicated to managing the storage systems, including creation and setup, storage maintenance, reporting, security, monitoring, backup/restore, archival, replication, media handling and data migration/tiering. • Disaster recovery: Includes the hardware, software, facilities and contracts specifically dedicated to disaster recovery for storage management. • Outsourcing: Includes third party and outsource contracts, such as managed storage services and cloud-based storage. • Personnel: In-house costs for government personnel (salaries and benefits) and costs for contract personnel supporting operations/maintenance, engineering/technical services, planning and process management, services administration, management and administration allocated to storage systems. <i>Note</i> : Dollars should only appear in ONE category, for example network storage OR mainframes and servers.
New IT Investment	IT Budget - Capital Planning Guidance	This term refers to an IT Investment and its associated projects that is newly proposed by the Agency and that has not been previously reported/funded by OMB. An asset(s) within an Investment that is essentially replaced by a new system or technology may be reported as a new, distinct Investment, with its own defined life cycle costs, or may be included within the current Investment.
Non-Major IT Investment	IT Budget - Capital Planning Guidance	This term refers to any IT Investment in the Agency's IT Portfolio that does not meet the definition of "major IT Investment" (01), "Funding Transfer Investment" (04) or "IT Migration Investment" (03). All non-major IT Investments must be reported in the Agency IT Investment Portfolio. For more details see section 10 of CPIC IT Portfolio Guidance.
Ongoing IT Investment	IT Budget - Capital Planning Guidance	Ongoing IT Investment refers to an Investment and its associated assets, including both maintenance projects and operational activities, that has been through a complete Budget Cycle with OMB with

Term	Source Document	Definition
		respect to the President's Budget for the current
		year (CY) — in this case, for FY 2017.
Operational	Capital Programming Guide;	This term refers to a method of examining the
Analysis	<u>GAO-13-87</u>	ongoing performance of an operating asset
		Investment and measuring that performance against
		an established set of cost, schedule, and
		performance goals. An operational analysis is, by
		nature, less structured than performance reporting
		methods applied to developmental projects and
		should trigger considerations of how the
		Investment's objectives could be better met, how
		costs could be reduced, and whether the
		organization should continue performing a
		particular function. Guidance for Operational Analysis is described in the Capital Programming
		Guide. Best Practices can also be found in GAO's
		GAO-13-87 report.
Operations	OMB Circular A-130;	This term refers to the day-to-day management of
Operations	IT Budget - Capital Planning	an asset in which the asset is in operations
	Guidance	production environment and produces the same
	<u> </u>	product or provides a repetitive service. Operations
		include, but are not limited to, activities that operate
		data centers, help desks, operational centers,
		telecommunication centers, and end-user support
		services. Operational activities are located in
		Section C of the Major IT Investment Update part
		of the FY 2016 CPIC Guidance.
Operations and	IT Budget - Capital Planning	Operations & Maintenance Costs refers to the
Maintenance	<u>Guidance</u>	expenses required to operate and maintain an IT
(Steady State)		asset that is operating in a production environment.
Costs		O&M costs include costs associated with
		operations, maintenance activities, and maintenance
		projects needed to sustain the IT asset at the current
		capability and performance levels. It includes Federal and contracted labor costs, corrective
		hardware and software maintenance, voice and data
		communications maintenance and service,
		replacement of broken or obsolete IT equipment,
		overhead costs, business operations and commercial
		services costs, and costs for the disposal of an asset.
		Also commonly referred to as steady state.
Partner	Federal IT Shared Services	This term refers to the Agency in an inter/intra
(Customer)	Strategy, May 2, 2012	Agency collaboration (such as an E-Gov or LoB
Agency	-	initiatives or a shared services). The Federal
		Agency or sub-organization that enters a
		relationship with and pays an Agency Lead or SMO
		to receive an IT shared or centralized service. The
		Customer Agency organization may be required to
		interact with a Supplier for the coordination of day-

Term	Source Document	Definition
		to-day service issues. The Managing Partner handles major contract issues and resolves escalation items with Suppliers. The Partner Agency usually provides resources (e.g., funding, FTEs, in-kind) for the management, development, deployment, or maintenance of a common solution. The partner Agency is also responsible for including the appropriate line items in its own Agency IT Investment Portfolio budget submission, and reflecting the amount of the contribution for each of the initiatives to which the Agency provides resources.
Performance- Based Acquisition Management	FAR 37.6	Performance-Based Acquisition Management refers to a documented, systematic process for program management, which includes the integration of program scope, schedule and cost objectives, the establishment of a baseline plan for accomplishment of program objectives, and the use of earned value techniques for performance measurement during execution/acquisition of the program. This type of management includes prototypes and tests to select the most cost-effective alternative during the planning phase; the work during the acquisition phase; and any developmental, modification, or upgrade work done during the O&M phase. A performance-based acquisition or contract/agreement with a defined quality assurance plan that includes performance standards/measures should be the basis for monitoring contractor or in-house performance of this phase.
Performance Reference Model (PRM)	FEA Framework, Version 2.0; GPRA 2010 Public Law 111- 352	PRM refers to one of six reference models of the FEA. The PRM allows Agencies to better manage the business of government at a strategic level, by providing a means for using the EA to measure the success of Investments and their impact on strategic outcomes. The PRM establishes a line of sight to outcomes and a common language to describe the outputs and measures used to achieve strategic objectives through coupled business services (mission and support). The PRM shows the linkage between internal business components and the achievement of business and customer-centric outputs and outcomes. Most importantly, the PRM helps to support planning and decision-making based on comparative determinations of which programs and services are more efficient and effective. The PRM is both a taxonomy and a standard method for performance measurement as it provides for a common approach to performance

Term	Source Document	Definition
		and outcome measurements throughout the
		Executive Branch of the Federal Government, as is
		required by the Government Performance and
		Results Modernization Act of 2010 (P.L. 111-352).
		Current PRM service codes can be found in PRM
		version 3.
Planning	40 U.S.C. § 11315;	Planning refers to preparing, developing, or
	OMB Circular A-130	acquiring the information used to design the asset;
		assess the benefits, risks, and risk-adjusted costs of
		alternative solutions; and establish realistic cost,
		schedule, and performance goals for the selected
		alternative, before either proceeding to full
		acquisition of the capital project or useful
		component or terminating the project. Planning
		must progress to the point where the Agency is
		ready to commit to achieving specific goals for the
		completion of the acquisition before proceeding to
		the acquisition phase. Information gathering
		activities to support planning may include market
		research of available solutions, architectural
		drawings, geological studies, engineering and
		design studies, and prototypes. Planning may be
		general to the overall Investment or may be specific
		to a useful component. For Investments developed
		or managed using an incremental or agile
		methodology, planning will be conducted
		throughout the entire acquisition, focusing on each
DI (C	Mama : 1 D 11; .:	iteration/sprint.
Platform as a	NIST Special Publication	The capability provided to the consumer to deploy
Service (PaaS)	800-145 - The NIST	onto the cloud infrastructure consumer-created or
Cloud	Definition of Cloud	acquired applications created using programming
Computing	Computing	languages, libraries, services, and tools supported
		by the provider. The consumer does not manage or
		control the underlying cloud infrastructure
		including network, servers, operating systems, or
		storage, but has control over the deployed applications and possibly configuration settings for
		the application-hosting environment (NIST Special
		Publication 800-145 -The NIST Definition of Cloud
		Computing).
PortfolioStat	OMB memo M-13-09;	PortfolioStat refers to a face-to-face, evidence-
Review	FY 2013 PortfolioStat	based review of an Agency's IT portfolio. Reviews
TC VIC W	Guidance: Strengthening	can be used to identify and address a broad range of
	Federal IT Portfolio	issues, including management of commodity IT,
	Management	duplication of Investments, and alignment with the
	Management	Agency's mission and strategy. More detail
		regarding the PortfolioStat process is described in
		OMB memo M-13-09 – Fiscal Year 2013
		PortfolioStat Guidance: Strengthening Federal IT
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Term	Source Document	Definition
		Ordering the items in the Product Backlog to best achieve goals and missions; Optimizing the value of the work the Development Team performs; Ensuring that the Product Backlog is visible, transparent, and clear to all, and shows what the Scrum Team will work on next; and, Ensuring the
		Development Team understands items in the Product Backlog to the level needed.
		The Product Owner may do the above work, or have the Development Team do it. However, the Product Owner remains accountable.
		The Product Owner is one person, not a committee. The Product Owner may represent the desires of a committee in the Product Backlog, but those wanting to change a Product Backlog item's priority must address the Product Owner.
		For the Product Owner to succeed, the entire organization must respect his or her decisions. The Product Owner's decisions are visible in the content and ordering of the Product Backlog. No one is allowed to tell the Development Team to work from a different set of requirements, and the Development Team isn't allowed to act on what anyone else says.
Project	40 U.S.C. § 11315; OMB Circular A-130	This term refers to a temporary endeavor undertaken to accomplish a unique product or service with a defined start and end point and specific objectives that, when attained, signify completion. Projects can be undertaken for the development, modernization, enhancement, disposal, or maintenance of an IT asset. Projects are composed of activities. When reporting project status, to the maximum extent practicable, Agencies should detail the characteristics of "increments" under modular contracting as described in the Information Technology Management Reform Act of 1996 (ITMRA, also known as the "Clinger-Cohen Act") and the characteristics of "useful segments," as described in OMB Circular A-130.
Project Manager Level of Experience	Federal IT Project Manager Guidance Matrix published by the CIO Council	This term refers to the specific certification(s) or number of years of direct project management experience that the PM holds. Examples of PM certifications include FAC-P/PM, Project Management Institute's Project Management Professional (PMP), and other recognized certifications. Refer to Federal IT Project Manager Guidance Matrix published by the CIO Council.

Term	Source Document	Definition
Term Provisioned IT Service Public Cloud	Source Document IT Budget - Capital Planning Guidance NIST Special Publication	Provisioned IT Service is a new category of funds that must be reported as appropriate. A "Provisioned IT Service" refers to an IT service that is (1) owned, operated, and provided by an outside vendor or external government organization (i.e., not managed, owned, operated, and provided by the procuring organization) and (2) consumed by the Agency on an as-needed basis. Provisioned IT services are considered subcategories of DME and O&M. Examples of Provisioned IT Service may include the purchase of E-Gov LoB from another Federal Agency, or the purchase of SaaS, PaaS, IaaS from a private service provider, or the purchase of shared services or cloud services. Provisioned IT Service excludes Software Licenses but includes both Intra-Agency and Inter-Agency Shared Services.
Public Cloud	NIST Special Publication 800-145 - The NIST Definition of Cloud Computing	cloud computing technology in which the cloud infrastructure is provisioned for open use by the general public. It may be owned, managed, and operated by a business, academic, or government organization, or some combination of them. It exists on the premises of the cloud provider. (NIST Special Publication 800-145 - The NIST Definition of Cloud Computing).
Records	44 U.S.C. § 3502; OMB Circular A-130	Records refers to all books, papers, maps, photographs, machine-readable materials, or other documentary materials, regardless of physical form or characteristics, made or received by an Agency of the United States Government under Federal law or in connection with the transaction of public business. Records may also include items that are preserved or appropriate for preservation by that Agency or its legitimate successor as evidence of the organization, functions, policies, decisions, procedures, operations, or other activities of the Federal Government or because of the informational value of data in them. Library and museum material made or acquired and preserved solely for reference or exhibition purposes, extra copies of documents preserved only for convenience of reference, and stocks of publications and processed documents are may not be included as records.
Release	Agile Methodology	A Release is a release of a product that is shipped to the customer. Each development project has a set number of releases, and within the releases can be multiple versions if that is how the Product Owner or Manager sets up the schedule.

Term	Source Document	Definition
		Example for Release #0001:
		Version 1: login, logout, password management
		Epics: 1
		Sprints: 3
		Total Story Points: 48
		Version 2: purchase history
		Version 3: saving preferences
Risk	OMB Circular A-123	Risk Management refers to a systematic process of
Management		identifying, analyzing, and responding to risk. It includes maximizing the probability and
		consequences of positive events and minimizing the
		probability and consequences of adverse events to
		overall objectives. Risk management should be
		conducted throughout the entire life cycle of the
		program.
Risk	OMB Circular A-123	Risk Management Plan refers to a documented and
Management		approved plan developed at the onset of the
Plan		Investment and maintained throughout that
		specifies the risk management process.
Security	Federal Security Operations	Per Federal Security Operations Center Best
Operations	Center Best Practices, March	Practices, a SOC defends an organization against
Center (SOC)	20, 2018	unauthorized activity within computer networks,
		including, at a minimum, detecting, monitoring, and
		analyzing suspicious activity as well as leading the
		response to malicious activity, contributing to
		restoration activities, and providing a structure for
		users to report suspected cybersecurity events. A
		SOC would generally be composed of security
		analysts organized to detect, analyze, respond to,
G :	2010 B '1 42	report on, and prevent cybersecurity incidents.
Service	2018 President's	Federal storefront to the commercial service
Management Office (SMO)	Management Agenda (PMA)	providers. Subject Matter Experts drive
Office (SMO)		standardization (per FIBF), respond to user concerns, manage the creation of Federal unique
		microservices, and manage the integration of
		commercial suppliers. Accountable for overall
		performance of service.
"Shadow IT" or	OMB Memo M-15-14	Refers to spending on IT that is not fully
"Hidden IT"	<u> </u>	transparent to the Agency CIO and/or IT resources
		included as a portion of a program that is not
		primarily of an "information technology" purpose
		but delivers IT capabilities or contains IT resources.
		For example, a grants program that contains a
		portion of its spending on equipment, systems, or
		services that provide IT capabilities for
		administering or delivering the grants.
Shared Service	IT Budget - Capital Planning	This term refers to the provider of a technical
Provider	<u>Guidance</u>	solution and/or service that supports the business of

Term	Source Document	Definition
		multiple Agencies using a shared architecture. For
		Multi-Agency services, this is the Agency Lead or
Shared Services	2018 President's	SMO for the Investment.
Shared Services	Management Agenda (PMA)	This term refers to services that are provided by a Agency Lead or SMO to Federal organizations that are outside of the provider's organizational boundaries. Shared services may be Intra-Agency or Inter-Agency. There are three categories of shared service models in the Federal Government: Common Solutions, Shared Services, and Centralized Services.
		 Common Solutions – Technology and/or contracts that can be used by more than one Federal Agency. May be government-to-government or citizen-to-government. Shared Services – Consolidating routine or standard operations to a limited number of organizations. Uses common solutions (technology and contracts) and sharing of human resource expertise either within an Agency or across agencies. Centralized Services – Creating a single Federal-wide location for highly standardized activities, allowing organizations and users to benefit from consistent and uniform processes.
Software as a	NIST Special Publication	The capability provided to the consumer to use the
Service (SaaS)	800-145 - <u>The NIST</u>	provider's applications running on a cloud
Cloud Computing Standard	Definition of Cloud Computing IT Budget - Capital Planning	infrastructure. The applications are accessible from various client devices through either a thin client interface, such as a web browser (e.g., web-based e-mail), or a program interface. The consumer does not manage or control the underlying cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities, with the possible exception of limited user-specific application configuration settings (see NIST Special Publication 800-145 - The NIST Definition of Cloud Computing).
		Formerly Part 3: IT Infrastructure Investments that
Investment	Guidance	have been disaggregated to their discrete components and managed separately.
Standard	IT Budget - Capital Planning	Reports submitted on a regular basis to accompany
Investment Report	Guidance	Standard Investments, which include performance metrics, projects, and a variety of other metrics specific to the type of infrastructure
Standard IT	IT Budget - Capital Planning	See also IT Management, IT Security and
Infrastructure, Security and Management	Guidance	Compliance, Data Center and Cloud, Network and End User Standard Investment definitions.

Term	Source Document	Definition
Investment		
TBM IT Cost Pool and IT Tower Definitions	TBM Taxonomy v2.1; IT Budget - Capital Planning Guidance	See Appendix D.
Technology Modernization Fund (TMF)	OMB Memo M-18-12	A centralized Fund that provides up-front funding for technology modernization activities pursuant to project recommendations made by the Technology Modernization Board.
TechStat Accountability Review	OMB Memo M-10-31	This term refers to a face-to-face, evidence-based review of an IT program with Bureau/Agency leadership and OMB as appropriate. TechStat sessions enable the Federal Government to turn around, halt, or terminate IT Investments that do not produce dividends for the American people. More detail regarding the TechStat process is described in the TechStat Training Deck (see https://www.cio.gov/fed-it-topics/sustainability-transparency/techstat/browse-toolkit/).
Telecommunications	44 U.S.C. § 3542; OMB Circular A-130	Includes telecommunications that are organized, procured and managed and/or operated by the Agency. Services may be provided for elements such as voice (voicemail, legacy voice service, and VoIP), data communications through the Wide Area Network (WAN)/Local Area Network (LAN) and associated access/transport options, Trusted Internet Connection (TIC), non-desktop Audio and Video Teleconference (VTC), and associated communications infrastructure elements (e.g., Structured Cabling Costs). • Voice Network/Services are (WASP/WITS, Legacy Analogue/Digital Voice, Voice Mail, Conference Bridge, automated operator services, and VoIP). • Wide Area Network (WAN) is a private, public or hybrid geographically dispersed network. • Local Area Network (LAN) is a private, public, or hybrid local area network. • Trusted Internet Connection (TIC) infrastructures, which provide a layer of consolidation and security for internet facing traffic. • Video Teleconferencing (VTC) is a collaborative meeting communications method. Only shared (non-desktop) locations should be included under telecommunications unless the desktop instance is a part of a specialized VTC used for remote or ad hoc shared connectivity. Typically utilizes PRI, IP, ISDN or Ethernet for connectivity.

Term	Source Document	Definition
		• Labor Costs including - FTE, Contract Support,
		Managed Services, and Other elements. Excludes
		cellular equipment, devices or services which are
		included in Mobile Devices.
Unique	OMB Memo M-11-33	UII refers to a persistent numeric code applied to an
Investment		Investment that allows the identification and
Identifier (UII)		tracking of an Investment across multiple FYs of an
		Agency's IT portfolio. The UII is composed of a
		three-digit Agency code concatenated with a nine-
		digit unique Investment number generated by the
		Agency. Some nine-digit numbers are reserved for
		OMB to assign and may not be assigned by
		Agencies, as controlled by the restrictions described
		in the section on "Variable Information."
		http://www.whitehouse.gov/sites/default/files/omb/
		memoranda/2011/m11-33.pdf - Page 14
User Stories	Agile Methodology	This term refers to high level requirements written
		by the project stakeholders or customers. These
		requirements are prioritized and further developed
		during sprints and determined acceptable by
		product owner or manager and stakeholders or
		customers.
Wide-Area	IT Budget - Capital Planning	Wide-area network (WAN) equipment, labor, and
Network	<u>Guidance</u>	support services directly connecting data centers,
(WAN)		offices, and third parties (excludes telecom and
		communication services). This definition also
		includes region-specific Agency WANs, such as in
		the case of a metropolitan-area network (MAN).

APPENDIX D. TECHNOLOGY BUSINESS MANAGEMENT IT COST POOLS AND IT TOWERS

The following table provides the TBM Council's open source Taxonomy v2.1 intended to support a standard and consistent approach for Federal reporting.

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Тоттом	Cub Tarrar	Doffinition
Tower	Sub-Tower	Definition Transfer and the state of the sta
Security & Compliance	Security	IT Security resources setting policy, establishing process & means, measuring compliance and responding to security breaches and providing real-time operational security such as vulnerability scanning, managing firewalls, intrusion prevention systems, and security information and event management (SIEM). Optional Level 3 categories include: Cyber Security. The implementation actions defined by security policies (e.g., mitigating security breaches by applying patches) are not included in the Security sub-tower and are part of the respective towers where the actions take place (e.g., Compute, Storage, Network).
	Compliance	IT Compliance resources setting policy, establishing controls and measuring compliance to relevant legal and compliance requirements. Optional Level 3 categories include: Data Privacy. The implementation actions defined by Compliance policy (e.g., implementing controls like multi-factor authentication) are not included in the Compliance sub-tower and are part of the respective towers where the actions take place (e.g., Compute, Storage, Network, Application, End User).
	Disaster Recovery	IT Disaster Recovery resources setting DR policy, establishing process & means, dedicated failover facilities, performing DR testing. NOTE: DR designated equipment is included directly in its own sub-tower (e.g., extra servers for DR are included in Compute tower, etc.). The implementation actions defined by Disaster Recovery policy (e.g., building DR servers) are not included in the Disaster & Recovery sub-tower and are part of the respective towers where the actions take place (e.g., Compute, Storage, Network).
IT Management	IT Management & Strategic Panning	IT management and administration resources; typically CIO, senior IT leaders and administrative support including centralized IT strategy and planning.
	Enterprise Architecture	Enterprise architecture services including business, information, application and technical architecture to drive standardization, integration and efficiency among business technology solutions.
	IT Finance	Resources involved in the planning, budgeting, spend management and chargeback of IT expenditures and the costing of IT products and services.

Tower	Sub-Tower	Definition
	IT Vendor Management	Resources involved in the selection, contract management, oversight, performance management and general delivery of services by 3rd party vendors and external service providers.
Network	LAN/WAN	Physical and wireless local area network connecting equipment within the core data centers and connecting end users in office working areas to the organization's broader networks. Wide area network equipment, labor and support services directly connecting data centers, offices and third parties (excludes telecom and communication services). Optional Level 3 categories include: LAN, WAN.
	Voice	Voice resources which enable or distribute voice services through on premise equipment including PBX, VoIP, voicemail and handsets (excludes telecom and communication services).
	Transport	Data network circuits and associated access facilities and services; includes dedicated and virtual data networks and internet access. Also includes usage associated with mobility and other data transit based on usage billing. Voice network circuits and associated access facilities and services. Also includes usage associated with standard telephone calls and 800 number service. Both voice and data transport may include terrestrial and non-terrestrial (e.g., satellite) technologies. Optional Level 3 categories include: Data, Voice.
Data Center Enterprise Data Purpose-built data cente Center IT equipment including		Purpose-built data center facilities that house and protect critical IT equipment including the space, power, environment controls, racks, cabling, and "smart hand" support.
	Other Facilities	Computer rooms and MDF/IDF/telco closets that house IT equipment in corporate headquarters, call centers, or other general purpose office buildings.
Compute	Servers	Physical and virtual servers running a version of Microsoft's Windows Server or the Linux operating system; includes hardware, software, labor and support services. Optional Level 3 categories include: Windows, Linux and Public Cloud Compute.
	UniX	Servers running vendor-specific, proprietary Unix operating systems (e.g., IBM AIX, Sun Solaris, HP UX); includes hardware, software, labor and support services.
	Midrange	Servers running IBM AS/400 platform including hardware, software, labor and support services.
	Converged Infrastructure	Purpose-built appliances that provide compute, storage and network capabilities in one box.

Tower	Sub-Tower	Definition
	High Performance Computing	High-Performance Computing (HPC) is used for solving complex computational problems through massive concurrent use of computing resources and parallel processing techniques. HPC technology is applied in areas such as scientific and industrial research, product engineering and development, and complex business modeling, simulation and analysis. HPC hardware and software technologies are specialized and optimized for massively parallel computing and processing vast amounts of data
	Mainframe	Traditional mainframe computers and operations running legacy operating systems.
Storage	Online Storage	Central storage such as SAN, NAS and similar technologies for the distributed compute infrastructure; includes the equipment, software and labor to run and operate. Optional Level 3 categories include: On-Premise, Public Cloud Storage.
	Offline Storage	Offline storage resources used for archive, backup & recovery to support data loss, data corruption, disaster recovery and compliance requirements of the distributed storage.
	Mainframe Online Storage	Mainframe attached storage arrays and the associated equipment, software and labor to run and operate.
	Mainframe Offline Storage	Any storage resources used for archive, backup & recovery to support data loss, data corruption, disaster recovery and compliance requirements of the mainframe storage.
End User	Workspace	Client compute physical desktops, portable laptops, thin client machines, peripherals (including monitors, pointer devices and attached personal printers) used by individuals to perform work.
	Mobile Devices	Client compute tablets, smart phones (iOS, Android, Windows Mobile) and apps used by individuals to perform work.
	End User Software	Client related software used to author, create, collaborate and share documents and other content. Examples include email, communications, messaging, word processing, spreadsheets, presentations, desktop publishing, graphics and others. Optional Level 3 categories include Productivity; Communications; Collaboration.
	Network Printers	Printers located on or near users' desktops. Examples include network connected personal printers, ink-jet printers, laser printers, departmental or copy-room printers. Only include network connected printers. Do not include printers connected to an end user computer.
	Conferencing & AV	Audio and video conferencing equipment typically used in conference rooms and dedicated telepresence rooms to enable workforce communications.

Tower	Sub-Tower	Definition	
	IT Help Desk	Centralized Tier 1 help desk resources that handle user requests, answer questions and resolve issues.	
	Deskside Support	Local support resources that provide on-site support for moves, adds, changes and hands on issue resolution.	
Output	Central Print	Central print services; often provided to support customer billing or customer documentation support processes. Unit of measure: page.	
Application	Application Development	Resources involved with the analysis, design, development, code, test and release packaging services associated with application development projects. Optional Level 3 categories include: Development, QA	
	Application Support & Operations	The operations, support, fix and minor enhancements associated with existing applications.	
	Business Software	Software expenditures including licensing, maintenance and support related to off-the-shelf software purchases.	
Delivery	IT Service Management	Resources involved with the incident, problem and change management activities as part of the IT Service Management process (excludes the Tier 1 help desk).	
	Program, Product & Project Management	Resources involved with managing and supporting IT related projects and/or continuous product development (e.g., Agile) across business and IT-driven initiatives.	
	Client Management	Resources or "account managers" aligned with the lines of business to understand business needs, communicate IT products, services and status of IT projects.	
	Operations Center	Centralized IT Operations Center resources including monitoring and intervention e.g., NOC (network operations center), GOC (global operations center).	
Platform	Database	Distributed database services focused on the physical database (versus the logical design) including DBAs, DBMS, tools and operational support.	
	Middleware	Distributed platform, application and system integration resources enabling cross application development, communications and information sharing.	
	Mainframe Database	Mainframe database services focused on the physical database (versus the logical design) including the DBAs, DBMS, tools and operational support.	

Tower	Sub-Tower	Definition
	Mainframe	Mainframe platform, application and system integration resources
	Middleware	enabling cross application development, communications and
		information sharing.

The list of TBM cost pool definitions is provided below:

Cost Pool	Cost Sub-Pool	Definition
	Operatin	g Expenditures (OpEx)
Internal Labor	Expense	Employee wages, benefits, expenses & occupancy.
External Labor	Expense	External contractor fees, travel, and expenses.
Outside Services	Consulting	External consulting project-based services.
	Managed Service Providers	External managed service providers.
	Cloud Service Providers	External public cloud service providers including IaaS, PaaS, and SaaS.
Hardware	Expense	Hardware expense of non-capitalized purchases (e.g., spare parts, consumables or equipment below capitalization threshold).
	Lease	Hardware lease expenditures (e.g., hardware purchased through a supplier or financial services leasing arrangement).
	Maintenance & Support	Hardware maintenance and support expenditures.
	Depreciation & Amortization	Hardware depreciation of capitalized purchases.
Software	Expense	Software expense of non-capitalized software purchases.
	Licensing	Software license expenditures for the use of non-SaaS provided software. SaaS subscriptions belong under Outside Services > Cloud Service Providers.
	Maintenance & Support	Software maintenance and support expenditures.
	Depreciation & Amortization	Software depreciation of capitalized software license purchases & software development efforts.
Facilities and Power	Expense	Data center space, power, security and other operating expenses (e.g., co-location facility services, electricity, water, etc.).
	Lease	Data center lease expenditures.

Cost Pool	Cost Sub-Pool	Definition
	Maintenance & Support	Data center maintenance & support expenditures.
	Depreciation & Amortization	Data center depreciation of facility build and leasehold improvements (e.g., raised floor Investments, power/PDU infrastructure, and rack build-out).
Telecom	Expense	Voice and data network connectivity expenses including circuit and usage expenditures.
	Lease	Telecom lease expenditures.
	Maintenance & Support	Telecom maintenance & support expenditures.
	Depreciation & Amortization	Depreciation/amortization of any capitalized telecom expenditures; typically, this will show up under Hardware or Facilities depreciation/amortization.
Other	Other	Miscellaneous or non-standard expenses.
Internal Services	Shared Service	Miscellaneous charges received from other internal shared services groups (e.g., HR service fees from the HR department). Real estate management fees for space and power should be included in the Facilities and Power cost pool.
	•	penditures (CapEx)
Internal Labor	Capital	Capitalized labor (internal employees)
External Labor	Capital	Capitalized labor (external contractors)
Hardware	Capital	Capitalized hardware expenditures
Software Outside Services	Capital	Capitalized software expenditures
Facilities & Power	Capital Capital	Capitalized services Capitalized leasehold improvements
Telecom	Capital	Capitalized telecom expenditures