

May 2010

BUSINESS SYSTEMS MODERNIZATION

Internal Revenue Service's Fiscal Year 2010 Expenditure Plan





Highlights of GAO-10-539, a report to congressional committees

Why GAO Did This Study

The Internal Revenue Service's (IRS) Business Systems Modernization (BSM) program is a multi-billion dollar, high risk, highly complex effort that involves the development and delivery of a number of modernized systems that are intended to replace the agency's aging business and tax processing systems. As required, IRS submitted its fiscal year 2010 expenditure plan in November 2009 to the House and Senate appropriations committees. requesting approximately \$254 million from the BSM account.

GAO's objectives in reviewing the expenditure plan were to (1) determine whether it satisfies the applicable legislative conditions, (2) determine IRS's progress in implementing prior expenditure plan review recommendations, and (3) provide additional observations about the plan and the BSM program. To accomplish the objectives, GAO analyzed the plan, reviewed related documentation, and interviewed IRS officials.

What GAO Recommends

GAO is recommending that the Commissioner of Internal Revenue take several actions to improve program management capabilities and controls, including ensuring that underlying causes for project cost and schedule variances are consistently provided in the expenditure plan. In commenting on a draft of this report, IRS stated it would review the recommendations and provide a detailed corrective action plan to address them.

View GAO-10-539 or key components. For more information, contact David A. Powner at (202) 512-9286 or pownerd@gao.gov.

BUSINESS SYSTEMS MODERNIZATION

Internal Revenue Service's Fiscal Year 2010 Expenditure Plan

What GAO Found

IRS's expenditure plan satisfies five of the six legislative conditions, and partially satisfies the condition to comply with acquisition rules, requirements, guidelines, and systems acquisition management practices used by the federal government. IRS has initiated an effort to improve its software acquisition and development practices, but does not expect to have changes in place until November 2010, at the earliest.

IRS has addressed two of GAO's prior recommendations to improve its management capabilities and controls. Specifically, IRS has completed a plan with specific time frames for implementing the initiatives supporting its information technology human capital strategy and has defined procedures for determining when to grant conditional milestone exits. However, work remains in order to fully implement GAO recommendations to develop long-term plans for completing the BSM and developing a quantitative measure of scope. GAO made the following observations about the expenditure plan and the BSM program:

- GAO's analysis of reported project costs and completion dates shows that 6 of the 10 project milestones planned for fiscal year 2009 were completed early or within 10 percent of cost and schedule estimates and 3 milestones were completed on schedule but were more than 10 percent over planned cost. IRS did not include underlying causes for these cost variances in its expenditure plan. Further, GAO was not able to determine cost and schedule variances for a milestone of the Modernized e-File—the system intended to provide a single standard for filing electronic tax returns—because IRS had not identified planned cost and schedule information for it in the fiscal year 2009 expenditure plan. IRS also did not report completing this milestone in its expenditure plan, and Congress therefore was not provided with information on the system's progress.
- IRS began development of a new strategy for managing individual taxpayer accounts to address several challenges confronting the Customer Account Data Engine, which was intended to replace the antiquated Individual Master File containing the repository of individual taxpayer information. While much has been done to define the strategy's transition states—or key phases—IRS has not identified time frames for completing key planning activities for fiscal year 2010 for the second transition state.
- IRS has identified several risks associated with defining and implementing the new strategy (e.g., the ability to deliver capabilities could be jeopardized if the scope is not rigorously managed) and has classified these risks into five categories. IRS reported that it has developed mitigation strategies for the risks that it has identified.
- Information security weaknesses continue to affect IRS's modernization environment. As GAO recently reported, IRS continues to have weaknesses in its information security controls. Additionally, while IRS reported that it had corrected about 40 percent of previously reported weaknesses, GAO found that it had not fully implemented the remedial actions it had reported for at least a third of those that it considered corrected.

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Abbreviations

AMS	Accounts Management Services
BSM	Business Systems Modernization
CADE	Customer Account Data Engine
CADE 2	Customer Account Data Engine 2
CIO	Chief Information Officer
CMMI	Capability Maturity Model Integration
СТО	Chief Technology Officer
EA	enterprise architecture
ELC	enterprise life cycle
IMF	Individual Master File
INF	infrastructure
IPM	integrated production model
IRS	Internal Revenue Service
LOE	level of effort
MCL	maintaining current levels
MeF	Modernized e-File
MER	Milestone Exit Review
MITS	Modernization and Information Technology Services
MV&S	Modernization Vision and Strategy
OMB	Office of Management and Budget
PMO	Program Management Office
SEI	Software Engineering Institute
TIGTA	Treasury Inspector General for Tax Administration

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United States Government Accountability Office Washington, DC 20548

May 10, 2010

The Honorable Richard J. Durbin Chairman The Honorable Susan Collins Ranking Member Subcommittee on Financial Services and General Government Committee on Appropriations United States Senate

The Honorable José E. Serrano Chairman The Honorable Jo Ann Emerson Ranking Member Subcommittee on Financial Services and General Government Committee on Appropriations House of Representatives

As required, the Internal Revenue Service (IRS) submitted its fiscal year 2010 expenditure plan in November 2009 to the House and Senate appropriations committees, requesting approximately \$254 million from the Business Systems Modernization (BSM) account, which funds IRS's efforts to modernize its business and tax processing systems.¹ Our objectives in reviewing the plan were to (1) determine whether the plan satisfies the applicable legislative conditions,² (2) determine IRS's

¹BSM funds (except labor costs) are unavailable until IRS submits a modernization expenditure plan to the congressional appropriations committees and obtains their approval. See the *Consolidated Appropriations Act, 2010*, Pub. L. No. 111-117, Division C, Title I, Dec. 16, 2009, 123 Stat. 3034, 3164.

²This plan must (1) meet the Office of Management and Budget's (OMB) capital planning and investment control review requirements; (2) comply with IRS's enterprise architecture; (3) conform with IRS's enterprise life cycle methodology; (4) comply with federal acquisition rules, requirements, guidelines, and systems acquisition management practices; (5) be approved by IRS, the Department of the Treasury, and OMB; and (6) be reviewed by GAO. These conditions for BSM funding availability have been in effect for several years, including the immediately preceding fiscal year. At the time of this report, the latest appropriation was provided under the *Consolidated Appropriations Act*, *2010*, Pub. L. No. 111-117, Division C, Title I, Dec. 16, 2009.

progress in implementing our prior recommendations, and (3) provide any other observations about the plan and IRS's BSM program.

This report transmits the information we provided to congressional appropriations subcommittee staffs during our March 9, 2010, briefing and provides the recommendations that we made to the Commissioner of Internal Revenue. The full briefing materials, including our scope and methodology, are included as appendix I.

We conducted this performance audit from November 2009 to March 2010 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

In summary, we made the following major points:

- IRS's fiscal year 2010 plan satisfies five of the six legislative conditions, and partially satisfies the condition to comply with acquisition rules, requirements, guidelines, and systems acquisition management practices used by the federal government.³ IRS has not fully established disciplined practices for software acquisition.⁴ IRS has initiated an effort to improve its software acquisition and development practices, but does not expect to have disciplined processes in place until November 2010, at the earliest.
- IRS has addressed two of our prior recommendations to improve its management capabilities and controls, including our recommendation to complete a plan with specific time frames for implementing the initiatives supporting IRS's information technology human capital strategy and define procedures for determining when to grant conditional milestone exits. However, work remains to fully implement our recommendations to

³For this condition, we did not determine whether the expenditure plan comports with the Federal Acquisition Regulation or other federal requirements beyond those encompassed by the Software Engineering Institute's Capability Maturity Model Integration (CMMI).

⁴We are referring to the practices defined in the CMMI model. CMMI is registered in the U.S. Patent and Trademark Office by Carnegie Mellon University's Software Engineering Institute. It is the process model that describes how to develop the processes needed for software development and specific practices that organizations should follow.

develop long-term plans for completing BSM and develop a quantitative measure of scope.

Of 10 project milestones⁵ planned for fiscal year 2009, 6 were completed early or within 10 percent of cost and schedule estimates and 3 were completed on schedule but were more than 10 percent over cost. For 1 of the milestones, we could not determine cost or schedule variances because IRS had not identified planned cost and schedule information in the fiscal year 2009 expenditure plan. A release⁶ of the Customer Account Data Engine⁷ (CADE) intended to implement legislative changes for filing season 2010 completed the detailed design phase on cost and schedule; by contrast, the release of the Accounts Management Services (AMS) system⁸ intended, among other things, to provide for the conversion of the Correspondence Imaging System (a legacy system) to a new platform for inventory management, completed the development phase 127 percent over cost. In its expenditure plan, IRS attributed the variances for the milestones over planned cost to the need to fund the projects in excess of planned amounts. However, the agency did not include underlying causes for the variances in the plan. Finally, we were not able to determine cost or schedule variances of a milestone of Modernized e-File⁹ release 6.1, because IRS had not identified planned cost and schedule information for it in the fiscal year 2009 expenditure plan. IRS also did not report completing this milestone in its expenditure plan, and Congress therefore was not provided with information on progress in delivering functionality.

⁹Modernized e-file is the system intended to provide a single standard for filing electronic tax returns.

⁵IRS's Enterprise Life Cycle Guidance defines seven milestones, each occurring at the end of one of the phases of the life cycle. Milestone 0- at the end of vision and strategy or enterprise architecture; 1- project initiation; 2- domain architecture; 3- preliminary design; 4- development, test, and integration; and 5- system deployment. The development, test, and integration phase is sometimes split into two phases, each corresponding to a different milestone: 4a- detailed design and 4b- system development.

⁶Releases are software versions that provide a subset of the total planned project functionality.

⁷CADE was intended to replace the antiquated Individual Master File containing the repository of individual taxpayer information. It is currently being used to provide for daily processing of tax returns for approximately 40 million taxpayers.

⁸AMS is intended to enhance customer support by providing applications that enable IRS employees to access, validate, and update individual taxpayer accounts on demand. While IRS has stated that AMS will also be part of the new strategy for managing individual taxpayer accounts that is currently being implemented, it has not requested any funding for this project for fiscal year 2010.

- IRS began development of a new strategy for managing individual taxpayer accounts, but time frames for completing key planning activities scheduled to occur during fiscal year 2010 have not yet been defined. In August 2008, IRS began defining the strategy to address several challenges confronting CADE, including that the approach to develop the system was more complex and taking longer than initially anticipated, and also take advantage of the availability of new technologies. IRS expects the strategy, generally referred to as CADE 2, to deliver benefits, including faster refunds for all individual taxpayers, in two transition states—or key phases—beginning in filing season 2012.¹⁰ While much has been done to define these transition states, IRS has not identified time frames for completing key planning activities during fiscal year 2010 for the second transition state.¹¹
- IRS has identified several risks associated with defining and implementing CADE 2 (e.g., the ability to deliver capabilities could be jeopardized if the scope is not rigorously managed). IRS has classified these risks into five categories: delivery, program, people, technology and complexity, and management. The Department of the Treasury's Inspector General for Tax Administration (TIGTA) also recently identified several challenges that IRS needs to address to effectively manage identified risks including, among other things, developing contingency plans in the event that CADE 2 cannot be fully implemented. IRS reported that it has developed mitigation strategies for the risks it has identified and stated that it found TIGTA's assessment to be valid.
- Information security weaknesses continue to affect IRS's modernization environment. In November 2009¹² and March 2010,¹³ we reported that, while IRS continued to make progress in correcting previously reported information security weaknesses, weaknesses in internal controls over

¹⁰IRS has stated that it does not yet have any plans for modernizing the Business Master File, which stores tax data and related information on business taxpayers. IRS officials, however, have told us that they expect to be able to replicate the CADE 2 approach to modernize the Business Master File.

¹¹We recently initiated a review of CADE 2.

¹²GAO, Financial Audit: IRS's Fiscal Years 2009 and 2008 Financial Statements, GAO-10-176 (Washington, D.C.: Nov. 10, 2009).

¹³After we provided our expenditure plan review results to the subcommittees, we issued a report focusing on IRS's information security program: GAO, *Information Security: IRS Needs to Continue to Address Significant Weaknesses*, GAO-10-355 (Washington, D.C.: Mar. 19, 2010).

information security continue to place IRS systems at risk. Additionally, while IRS had informed us that it corrected about 40 percent of the previously reported weaknesses, we found that it had not fully implemented the remedial actions it reported for at least a third of those that it considered corrected. Further, in August 2009,¹⁴ TIGTA reported that while IRS had taken steps to address several CADE system security vulnerabilities it had identified in a previous audit, some had been fully resolved and others could not be resolved until actions were completed to ensure controls are effectively in place or have been approved as deviations to IRS policy. IRS is taking steps to address recommendations from GAO and TIGTA and has stated that it expects CADE 2 to fully address the security weaknesses that are currently confronting CADE. While current and planned actions to improve its security posture are positive steps, IRS's modernization environment will continue to be at risk until the agency has fully addressed its information security weaknesses.

Conclusions

During fiscal year 2009, IRS continued to deliver BSM projects, although work on planned releases of CADE and AMS was either modified or suspended pending completion of efforts to define the agency's new strategy to manage individual taxpayer accounts. IRS generally made progress in addressing outstanding recommendations from our prior expenditure plan reviews. However, the expenditure plan explanations for significant project cost variances did not always provide information on root causes, limiting Congress's insight into areas that need improvement. Further, because IRS did not report one completed project milestone for which it had not identified specific plans in the fiscal year 2009 expenditure plan, Congress did not receive information on progress in delivering key functionality. Finally, while much has been done to define the transition states of the CADE 2 strategy for managing individual taxpayer accounts, specific time frames for addressing key planning activities for the second transition state, including defining core requirements, have not been defined. Having these time frames would guide progress in completing activities that are foundational to the transition state.

¹⁴TIGTA, Customer Account Data Engine Release 4 Includes Most Planned Capabilities and Security Requirements for Processing Individual Tax Account Information, 2009-20-100 (Washington, D.C., Aug. 28, 2009).

Recommendations for Executive Action	 To improve the program management capabilities and controls that are critical to the effective management of the BSM program, we are recommending that the Commissioner of Internal Revenue direct the IRS Chief Technology Officer to take the following three actions: 1. Ensure that explanations of project cost and schedule variances provided in the expenditure plan consistently include underlying causes. 2. For individual milestones that have been combined, report available performance information in the expenditure plan to provide Congress with information on progress in delivering functionality. 3. Define specific time frames for CADE 2 transition state 2 planning activities, including defining a core set of requirements, to guide progress.
Agency Comments	IRS's Deputy Commissioner for Operations Support provided written comments on a draft of this report (reprinted in app. II). He stated that IRS appreciated that the report recognizes progress made to improve its program management capabilities and controls. He also stated that IRS would review the recommendations to ensue its actions include assuring that underlying causes for project cost and schedule variances are consistently provided in the expenditure plan. Additionally, IRS stated that it would provide the detailed corrective action plan addressing each of the recommendations.
	We are sending copies of this report to the Chairmen and Ranking Members of the Senate and House committees and subcommittees that have appropriations, authorization, and oversight responsibilities for IRS. We are also sending copies to the Commissioner of Internal Revenue, the Secretary of the Treasury, the Chairman of the IRS Oversight Board, and the Director of the OMB. In addition, the report will be available at no charge on the GAO Web site at http://www.gao.gov.

Should you and your offices have questions on matters discussed in this report, please contact me at (202) 512-9286 or at pownerd@gao.gov. Contact points for our Offices of Congressional Relations and Public Affairs may be found on the last page of this report. GAO staff who made key contributions to this report are listed in appendix III.

David a. Por

David. A. Powner Director, Information Technology Management Issues

Appendix I: Briefing Slides from the March 9, 2010, Briefing to the Senate and House Appropriations Subcommittee Staffs



Review of IRS's Fiscal Year 2010 Business Systems Modernization Expenditure Plan

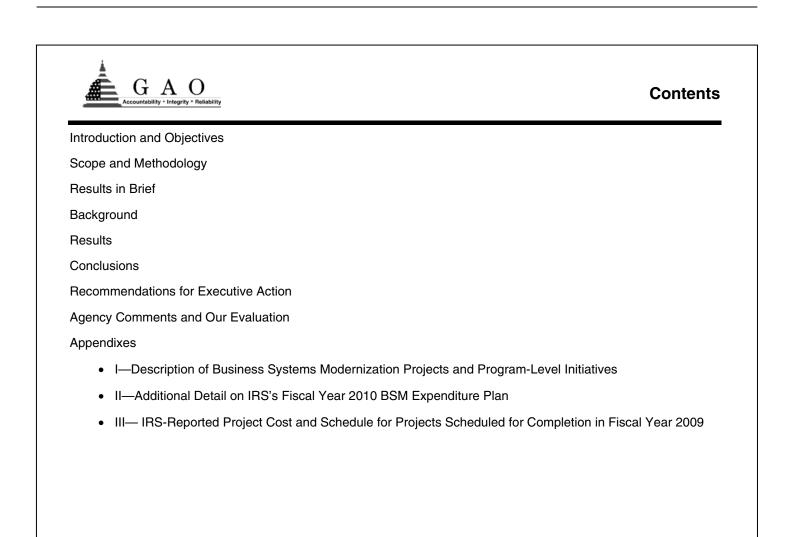
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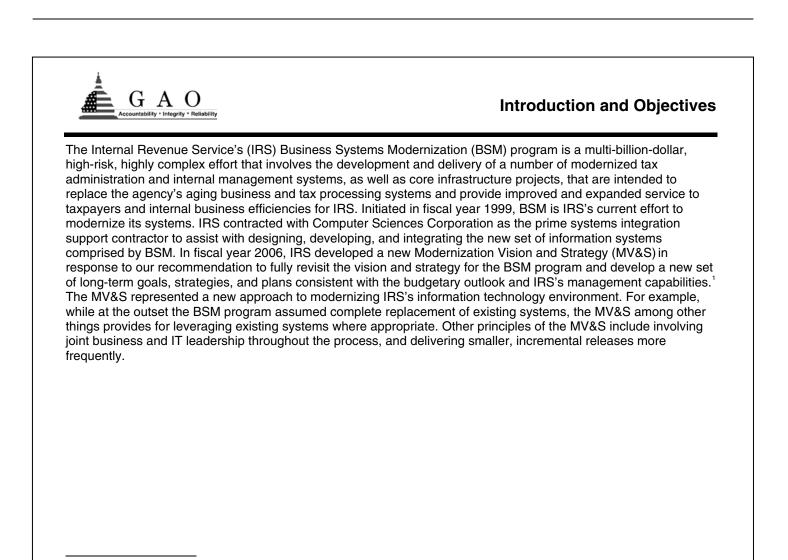
Subcommittee on Financial Services and General Government, Committee on Appropriations, U.S. Senate

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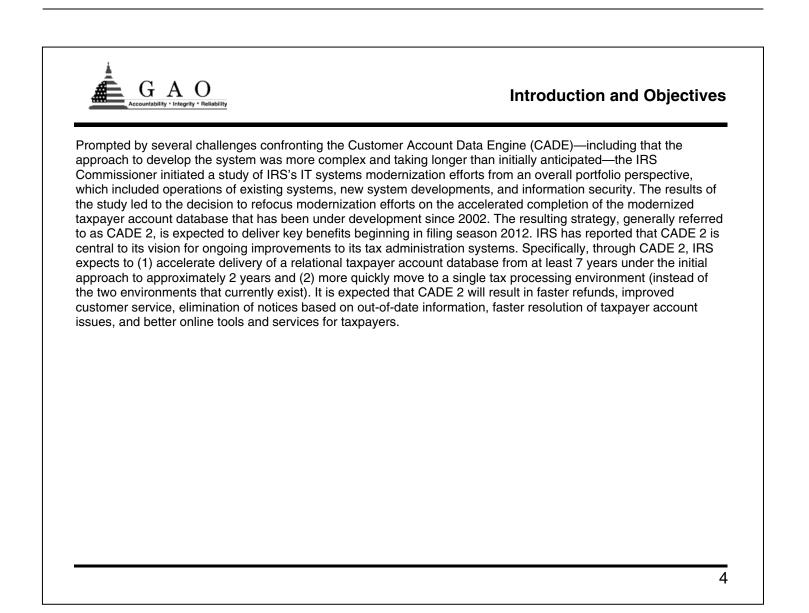
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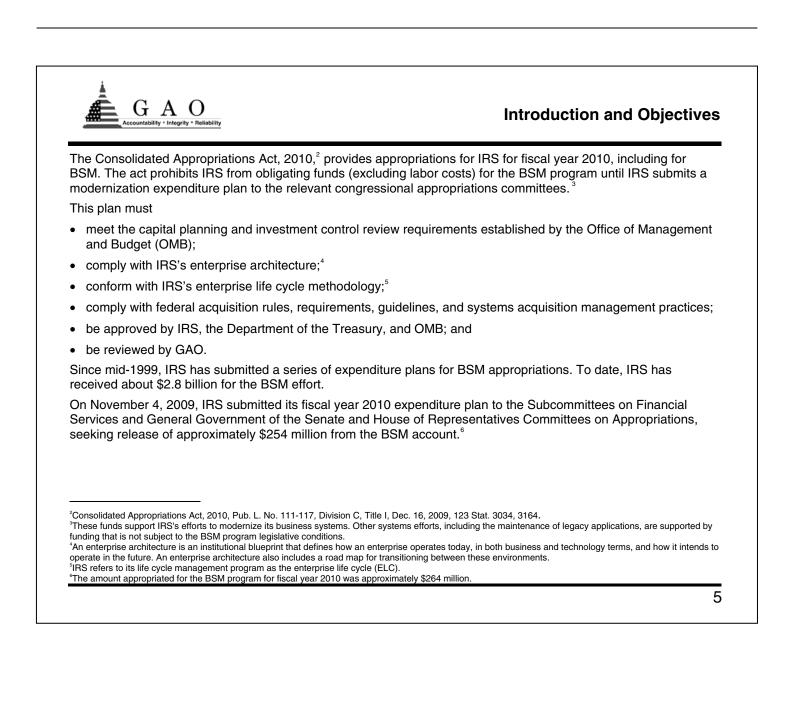
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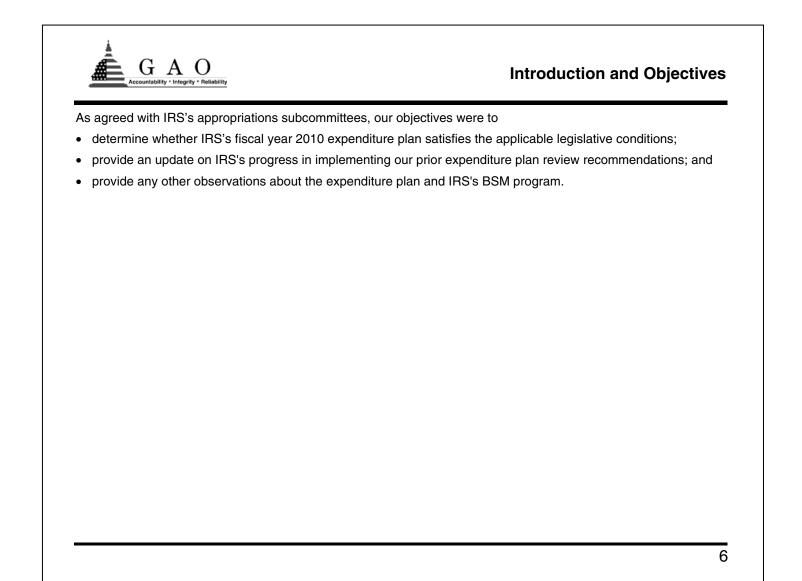


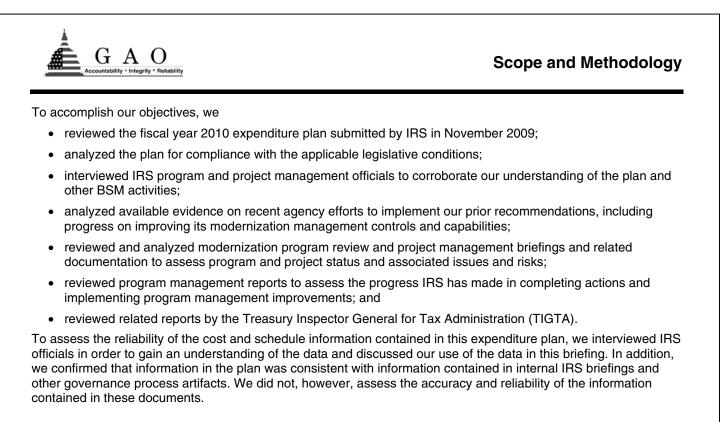


¹GAO, Business Systems Modernization: Internal Revenue Service's Fiscal Year 2005 Expenditure Plan, GAO-05-774 (Washington, D.C.: July 22, 2005)

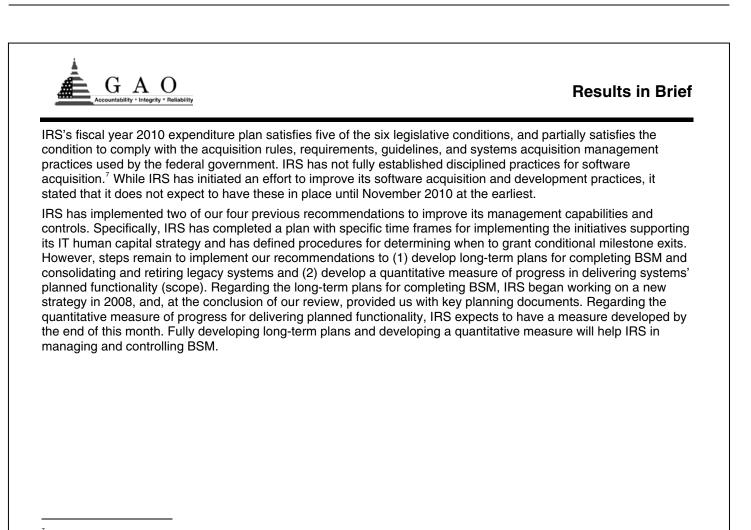








We conducted this performance audit from November 2009 to March 2010 in Washington, D.C., in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our conclusions based on our audit objectives.

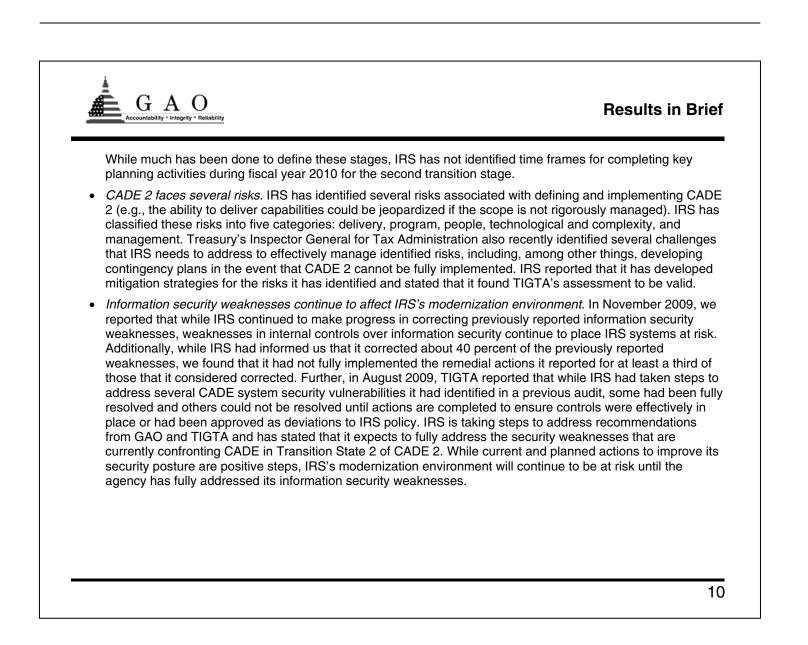


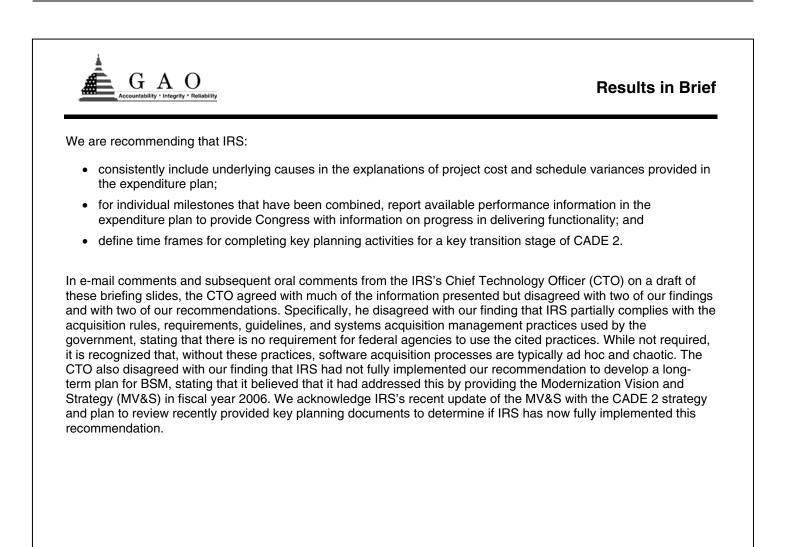
⁷We are referring to the practices defined in the Capability Maturity Model Integration (CMMI®) model. CMMI is registered in the U.S. Patent and Trademark Office by Carnegie Mellon University's Software Engineering Institute. It is the process model that describes how to develop the processes needed for software development and specific practices that organizations should follow.

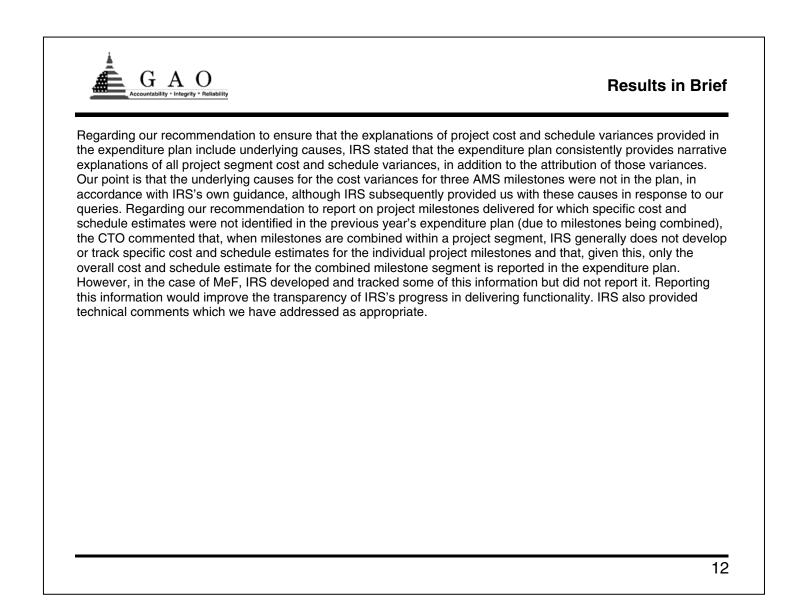
GΑΟ **Results in Brief** We have four observations related to the BSM program and fiscal year 2010 expenditure plan: Of 10 project milestones[®] planned for fiscal year 2009, 6 were completed within 10 percent of cost and schedule estimates or early, and 3 were completed on schedule but more than ten percent over cost. For 1 of the milestones, we could not determine cost or schedule variances because IRS had not identified planned cost and schedule information in the fiscal year 2009 expenditure plan. A release⁹ of CADE intended to implement legislative changes for filing season 2010 completed the detailed design phase on cost and schedule; by contrast, the release of the Account Management Services intended, among other things, to provide for the conversion of the Correspondence Imaging System to a new platform for inventory management, completed the development phase127 percent over cost. In its expenditure plan, IRS attributed the variances for the milestones over planned cost to the need to fund the projects in excess of planned amounts. However, the agency did not include underlying causes for the variances in the plan. Finally, we were not able to determine cost or schedule variances of a milestone of Modernized e-File, release 6.1, because IRS had not identified planned cost and schedule information for it in the fiscal year 2009 expenditure plan. IRS also did not report completing this milestone in its expenditure plan, and Congress therefore was not provided with information on progress in delivering functionality. IRS began development of a new modernization strategy, but time frames for completing key planning activities to be completed during fiscal year 2010 have not yet been defined. In August 2008, IRS began to define a new strategy for managing individual taxpayer accounts that was to address several challenges confronting its Customer Account Data Engine and also take advantage of the availability of new technologies. IRS expects the strategy, generally referred to as CADE 2, to deliver benefits, including faster refunds for all individual taxpayers, in two transition stages beginning in filing season 2012.

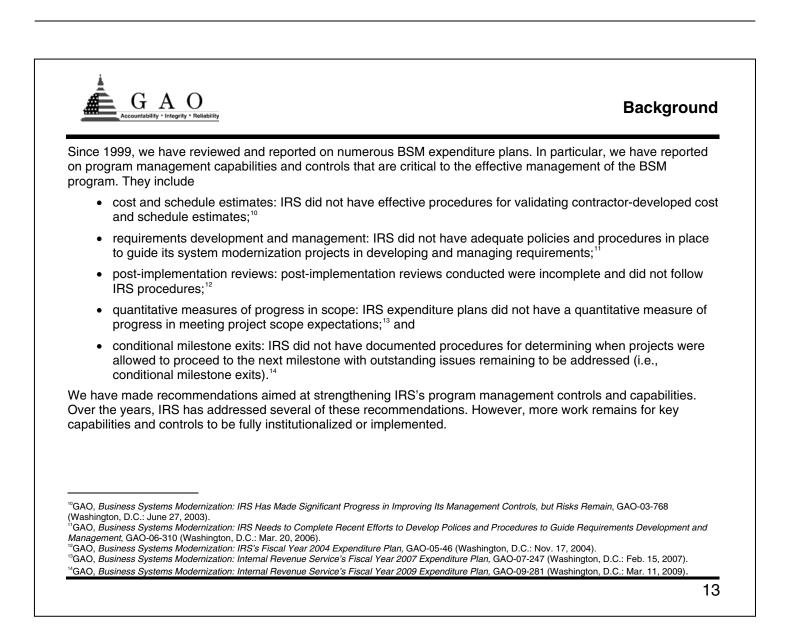
⁸IRS's Enterprise Life Cycle Guidance defines seven milestones, each occurring at the end of one of the phases of the life cycle. Milestone 0- at the end of vision and strategy/enterprise architecture, 1- project initiation, 2- domain architecture, 3- preliminary design, 4- development, test, and integration, 5- system deployment. The development, test, and integration phase is sometimes split into two phases, each corresponding to a different milestone: 4a- detailed design and 4b - system development.

⁹ Releases are software versions that provide a subset of the total planned project functionality.









Accountability - Integrity - Reliability	Background
As previously noted, the BSM program is driven by IRS's Moderniz the CADE 2 strategy that is currently being defined will redefine the	
IRS's Modernization and Information Technology Services (MITS) of managing and delivering the BSM program. Headed by a Chief Tec others, the Deputy Chief Information Officer (CIO) for Strategy/Moo MITS is comprised of eight Associate CIO-level organizations, inclu	chnology Officer ¹⁶ who is supported by, among lernization and the Chief Information Officer,
 Applications Development, which delivers applications for the filing season and maintains legacy systems; 	MV&S and other applications to support the
 Enterprise Services, which sets enterprise technology and procommon practices across the IT organization; 	ocess standards to promote compatibility and
 Strategy and Planning, which was established in August 2009 technology and business through strategic planning and finar into the overall demand for supply, and value of IT investment 	ncial management practices that provide visibility
CADE 2 Program Management Office, which was established CADE 2.	d in July 2009 to oversee the implementation of
¹⁵ An initial cycle of the MV&S was completed in fiscal year 2006, and the strategy was update Vision & Strategy (Washington, D.C: October 2007). ¹⁶ IRS's Chief Technology Officer, who was appointed in November 2008, reports to the Deputy	
	14

Act	countability · Integrity · Reliability	Background	
	I year 2010 expenditure plan describes the agency's efforts to develop modernize infrastructure. ¹⁷ They include	ed systems and	
	ntinuing ongoing program-level initiatives (e.g., architecture and integration and p d core infrastructure projects (e.g., infrastructure shared services),	rogram management)	
• coi	ntinuing two tax administration project releases to their next milestones, and		
• coi	ntinuing to define and starting to implement the new strategy for managing individ	lual taxpayer accounts.	
Key tax ad	Iministration projects include		
• M	lodernized e-File (MeF), which is to provide a single standard for filing electronic ta	ax returns;	
fo of	ustomer Account Data Engine (CADE), ¹⁸ which was intended to provide the mode oundation to replace the existing Individual Master File (IMF) processing system, c i individual taxpayer information. It will continue with daily processing of tax returns illion taxpayers and implementing new tax law changes; and	ster File (IMF) processing system, containing the repository e with daily processing of tax returns for approximately 40	
ar pr	ADE 2, which is IRS's new revised approach intended to provide the modernized not leverage applications, database structures, files, and business logic from both rovide a daily processing capability for moving all individual taxpayer accounts to a not address IRS's long-term modernization plans and goals.	CADE and IMF ¹⁹ to	
⁷ Efforts to maii ⁸ CADE refers t	intain and enhance legacy applications are funded from a different source not subject to the BSM expenditure plan to the prime contract development efforts that began in 2002 to replace the legacy Master File and to date have re	n appropriations restriction. esulted in a series of five CADE	
eleases and su IRS has stated	ub-releases. IRS refers to the system as "Current CADE" in its expenditure plan. d that it does not yet have any plans for modernizing the Business Master File, which stores tax data and related i officials, however, have told us that they expect to be able to replicate the CADE 2 approach to modernize the Bu	information on business	

Accountability - Integrity - Reliability	Background
CADE 2 will also include projects such as:	
 Accounts Management Services (AMS),²⁰ which is intended to enhance cu applications that enable IRS employees to access, validate, and update in demand; and 	ustomer support by providing dividual taxpayer accounts on
• Integrated Production Model (IPM), which is intended to serve as a central and make those data available to several client systems.	l repository for corporate data
Details on these and other BSM projects and program-level initiatives identified in t provided in appendix 1.	he fiscal year 2010 plan are
Table 1 shows a financial summary of the plan.	
20 While IRS has stated that AMS will also be part of CADE 2, it has not requested any funding for this project for fisc	al year 2010
While INS has stated that AWS will also be part of CADE 2, it has not requested any funding for this project for his	al year 2010.
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Accountability * Integrity * Reliability		Background
ble 1: Summary of IRS's Fiscal Year 2010 BSM Expendi	ture Plan [®]	
	Amount (in thousands)	
Tax administration projects		
Modernized e-File	\$50,000	
Current CADE	38,000	
Customer Account Data Engine 2 ^b	47,654	
Subtotal—tax administration projects	135,654	
Core infrastructure projects		
Development, Integration, and Testing Environments	14,500	
Infrastructure Shared Services	17,500	
Subtotal—core infrastructure projects	32,000	
Architecture, integration, and management		
Architecture and Integration	13,745	
Business Integration	4,206	
Business Rules and Requirements Management	3,160	
Management Processes	3,539	
Federally Funded Research and Development Center	7,396	
Project Management	2,954	
Subtotal—architecture, integration, and management	35,000	
Management Reserve	5,020	
BSM Capital Total	207,674	
BSM Labor Total	44,666	
Maintaining Current Levels (MCL)°	1,334	
Total	\$253,674	

Source: GAO analysis of IRS data.

*See appendix II for additional details on the plan. According to IRS's Chief Technology Officer, the agency is currently preparing an update to the expenditure plan to address the higher enacted level (about \$264 million) for the BSM appropriation. *The amount for CADE 2 includes \$2.6 million for the Integrated Production Model project. *Maintaining Current Levels (MCL) is the inflationary factor for the BSM labor cost.

Legislative Conditi Objective 1: IRS's fiscal year 2010 BSM expenditure plan fully satisfies five of the six legislative conditio and partially satisfies the condition that the plan comply with the acquisition rules, requirements, guidelines, and systems acquisition management practices used by the federal government.		
Table 2: Status of Fiscal Year 2010 Expenditure Plan Provisions for		
Legislative conditions	Satisfied	Partially satisfied
1. Meets OMB capital planning and investment control review requirements		
2. Complies with IRS's enterprise architecture (EA)		
3. Conforms with IRS's enterprise life cycle (ELC) methodology		
4. Complies with the acquisition rules, requirements, guidelines, and systems acquisition management practices used by the federal government		
5. Approved by IRS, the Department of the Treasury, and OMB		
6. Reviewed by GAO		
Source: GAO analysis of IRS data.		

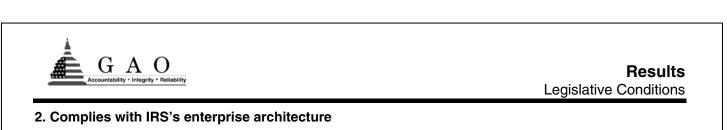
²¹See Consolidated Appropriations Act, 2010, Pub. L. No. 111-117, Division C, Title I, Dec. 16, 2009, 123 Stat. 3034, 3164.



projects are being implemented at an acceptable cost and within reasonable and expected time frames, and that they are contributing to observable improvements in mission performance. The BSM expenditure plan met this condition. Specifically, as noted in the plan, IRS has established a structured governance and decision-making process framework that includes various levels of governing bodies to manage its projects under a standardized approach. The framework includes policies and procedures to select, control, and evaluate investments that are generally consistent with OMB capital planning and investment control review requirements. IRS also recently developed additional procedures to augment its governance and decision-making processes:

- In November 2008, the agency developed an *Enterprise Governance Authority and Operations Directive* that describes a set of guiding principles and roles and responsibilities for IRS governance functions.
- In April 2009, IRS issued an Enterprise Control Authority and Operations Directive that provides requirements, guiding principles, roles, and responsibilities for institutionalizing a comprehensive set of IRS enterprise control processes and a Tiered Program Management Escalation Guide that provides information for institutionalizing a comprehensive set of enterprise escalation guidelines.

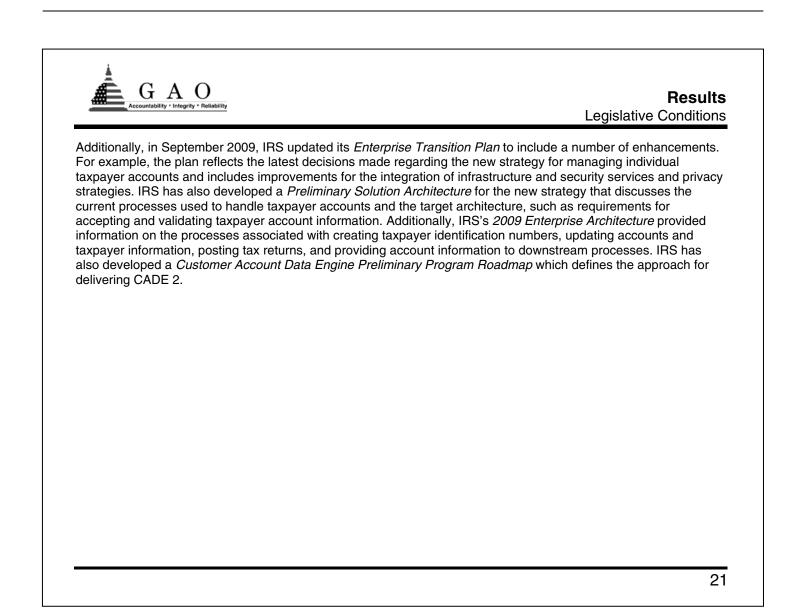
IRS has also conducted training of governance board coordinators and secretariats as well as ongoing work groups to provide a venue for sharing lessons learned and internal best practices. In addition, officials stated that IRS has established a single repository to house the data for its Governance IT portfolio. We recently initiated a review to assess IRS's capital planning and investment control practices against best practices identified in our IT Investment Management Framework.

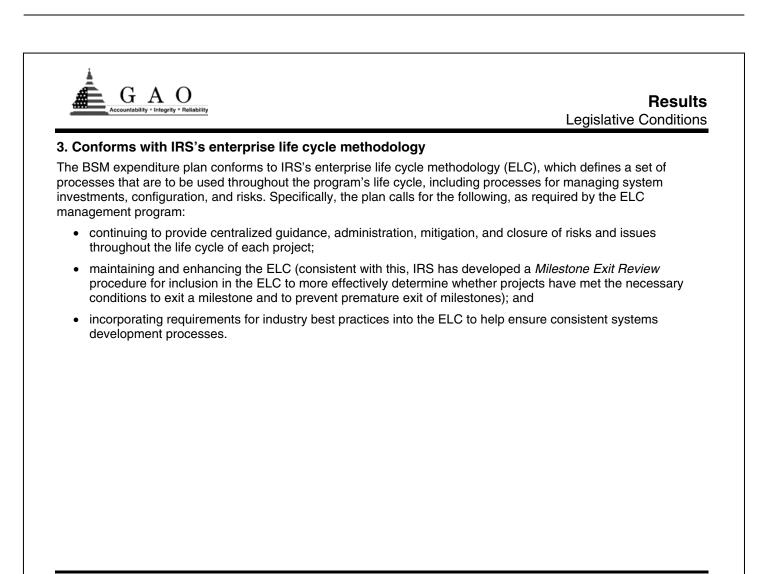


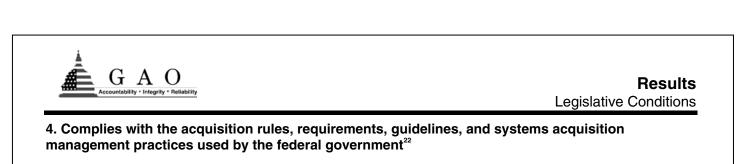
IRS's BSM expenditure plan provides for compliance with the enterprise architecture (EA). Specifically, OMB requires that IRS document and submit an initial EA that is consistent with the principles identified within OMB Circular A-130. Additionally, IRS is required to submit updates to OMB when significant changes to the EA occur. Consistent with this requirement, IRS has developed a number of documents, including its *Enterprise Transition Plan*, which provides information about IRS's overall plan to evolve information technology and facilitate the investment decision-making process. In addition, IRS has outlined general processes that projects are to follow in order to ensure their compliance with the IRS EA. Specifically these processes discuss the activities and documentation required to ensure compliance with the EA. For example, at milestone 3—which is the phase where a project's preliminary design is developed—IRS requires projects to submit an EA compliance checklist which is used to help ensure that the project design has been checked for compliance.

IRS's BSM expenditure plan also identifies funding for continued definition and implementation of the EA. For example, the plan identifies funding needed for

- performing architecture, engineering, and integration activities to ensure that the IRS EA provides the information and guidance necessary for modernization projects;
- · supporting the performance of EA compliance certification activities; and
- finalizing and publishing updates to the EA based on change requests.





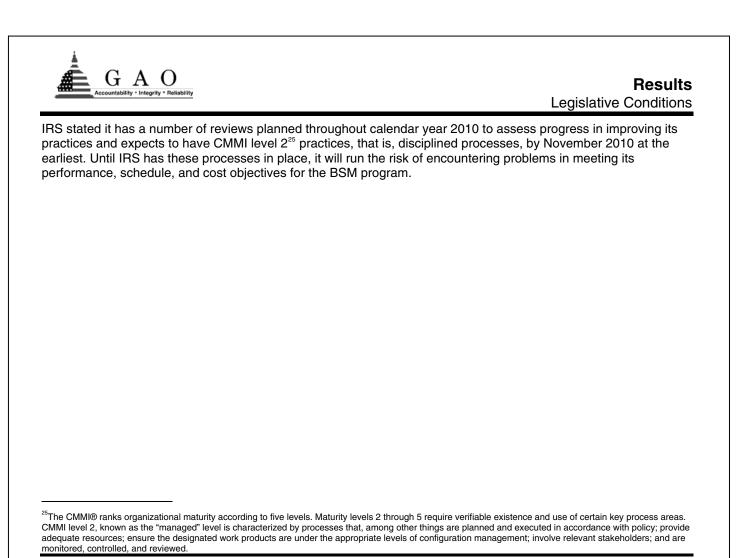


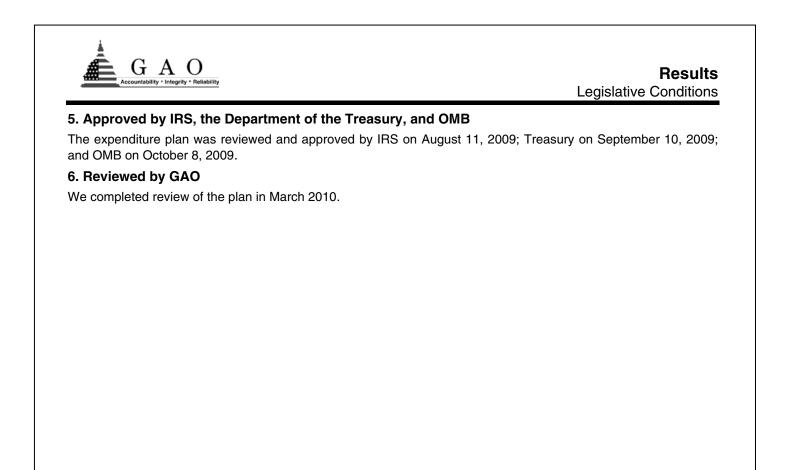
The plan partially complies with best practices for software development/acquisition because IRS does not yet have in place disciplined practices as called for by Carnegie Mellon University's Software Engineering Institute (SEI)²³; however, IRS is taking steps to implement SEI's Capability Model Integration (CMMI®)²⁴ processes. The quality of software is governed largely by the quality of the processes involved in developing or acquiring it and maintaining it. SEI, recognized for its expertise in software processes, has developed models and methods that define and determine organizations' software process maturity, including the CMMI® model used to develop processes needed for software development and acquisition and specific practices that agencies should follow to mature these processes. IRS officials stated that, in June 2009, the agency initiated a CMMI® implementation project to improve its software acquisition and development practices by conducting a gap analysis—which compares actual performance with potential performance—and performing benchmarking activities. As a result of these activities, IRS developed process improvement recommendations, including, among other things, updating the existing project management plan template, expanding performance monitoring, and establishing a communications management plan. Additionally, according to IRS officials, the agency developed a governance structure to oversee the implementation of these recommendations. IRS officials also stated that a sample of projects from across the Applications Development organization will be used to pilot the CMMI® changes, and mentoring teams will be established to coach and provide training to the pilot projects to ensure institutionalization of the newly created and modified process assets.

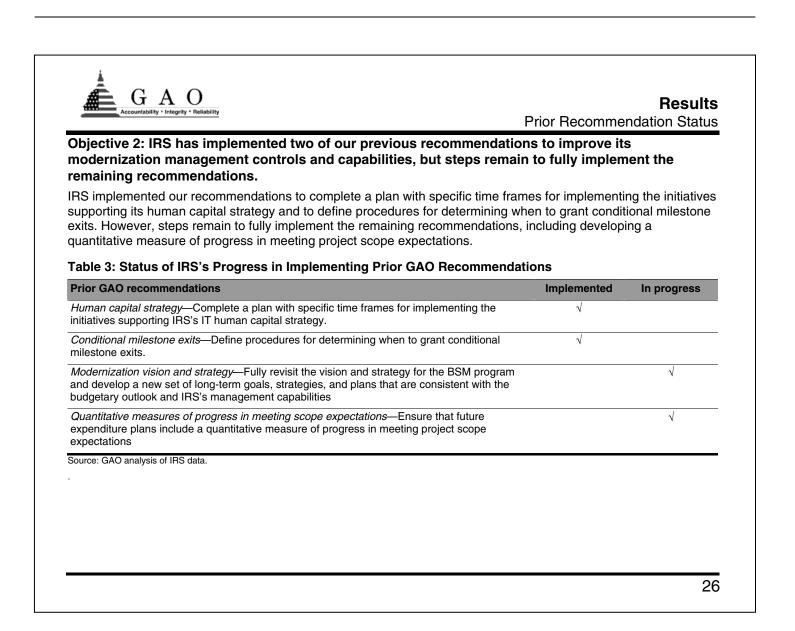
²² These key process areas are acquisition planning, solicitation, requirements development and management, project management, contract tracking and oversight, evaluation, and transition to support. For this condition, we did not determine whether the expenditure plan comports with the Federal Acquisition Regulation or other federal requirements beyond those encompassed by the Software Engineering Institute's Capability Maturity Model.

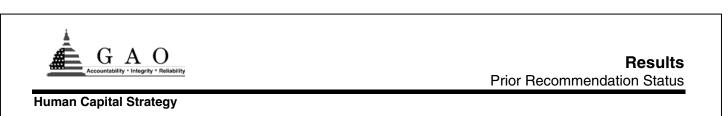
²³ SEI is a federally funded research and development center operated by Carnegie Mellon University and sponsored by the Department of Defense. Its objective is to provide leadership in software engineering and in the transition of new software engineering technology into practice.

²⁴ CMMI is registered in the U.S. Patent and Trademark Office by Carnegie Mellon University. The CMMI® is SEI's model that describes how to develop the processes needed for software development and specific practices that organizations should follow.



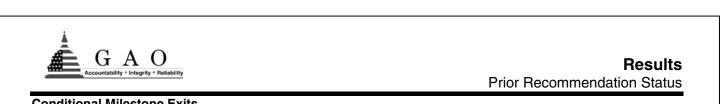






In March 2008, we reported that IRS had developed a human capital strategy for its Application Development organization that addressed hiring critical personnel, employee training, leadership development, and workforce retention and identified several initiatives it planned to undertake in these areas. However, the agency did not have a specific plan, including time frames, for addressing these initiatives. Accordingly, we recommended that the agency develop such a plan.²⁶ IRS agreed with our recommendation, and, in response, identified a timeline for addressing these initiatives, including addressing the IT corporate hiring challenge, succession planning, and coaching and mentoring, in its *Applications Development Strategic Plan for 2007-2011* and its *2008-2010 Modernization Information Technology Services Corporate Strategies* document. IRS officials also noted that human capital initiatives are planned (and therefore updated) on an annual basis. Recently, IRS's Human Capital Management Branch developed the *MITS Recruitment and Training Strategies and Projected Activity* document for fiscal years 2010 through 2013 to further address staffing issues within the MITS organization, including staffing associated with the new strategy for modernizing individual taxpayer accounts. Effectively performing these activities should allow IRS to acquire and retain the staff resources it needs to effectively support BSM.

26GAO, Business Systems Modernization: Internal Revenue Service's Fiscal Year 2008 Expenditure Plan, GAO-08-420 (Washington, D.C.: Mar. 7, 2008)



Conditional Milestone Exits

In March 2009, we reported that IRS's use of conditional milestone exits (whereby projects are allowed to continue with outstanding issues needing to be addressed) was not supported by documented procedures and, as a result, the conditional exit process could potentially be used to mask cost and schedule overruns and result in projects exiting milestones prematurely. Accordingly, we recommended that such procedures be defined. IRS agreed with our recommendation and, in response, developed a Milestone Exit Review (MER) Procedure to emphasize the prevention of premature milestone exits with outstanding issues. The MER procedure describes the activities required for a project to enter and exit the MER process. It also requires that the governance board members review the project's cost, schedule, performance, risks, and conditional exit, (3) disapprove the exit, (4) recommend suspending the project, or (5) terminate the project. By developing this procedure, IRS has reduced the likelihood that the conditional exit process will be used to mask cost and schedule overruns or result in projects exiting milestones prematurely.



Modernization Vision and Strategy

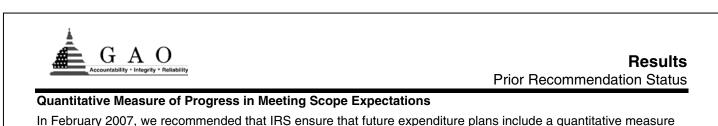
In July 2005, we recommended that IRS fully revisit the vision and strategy for the BSM program and develop a new set of long-term goals, strategies, and plans consistent with the budgetary outlook and IRS's management capabilities.²⁷ We also noted that the vision and strategy should include time frames for consolidating and retiring legacy systems. IRS agreed with our recommendation, and, in response, developed an initial cycle of its Modernization Vision and Strategy (MV&S) in fiscal year 2006²⁸ to guide IT investment decisions during fiscal years 2007 through 2011. IRS also developed a high-level strategy and 5-year schedule for retiring and consolidating systems, which it began implementing.²⁹

In 2008, IRS began working on a new strategy, referred to as CADE 2 that, among other things, addresses the management of individual taxpayer accounts as well as several long-term goals to enhance IRS's systems. Specifically, the strategy's initial phase is to create a modernized taxpayer database and to move the processing of individual taxpayer accounts from a weekly processing cycle to a daily processing cycle by the January 2012 filing tax season. In support of this new strategy, in July 2009, IRS developed a *Preliminary Solution Architecture* document which describes the characteristics of the strategy in both business and technical terms. IRS also developed a *Preliminary Program Roadmap* which defines the approach for delivering the new strategy and provides general time frames for delivering key phases known as transition states. IRS also established a program management office and defined a program management framework that would guide the strategy from initiation to completion. IRS provided us with key planning documents for the new strategy, including cost and schedule estimates and final *Solution Architecture* and *Program Roadmap* documents, at the conclusion of our review. We plan to review these documents in a CADE 2 review we have underway and determine if IRS has implemented our recommendation.

²⁷GAO-05-774.

²⁸IRS's MV&S initiative is intended to be an annual process through which the agency integrates the strategic plans, business concepts of operations, IT planning roadmaps, and proposed investments into a set of integrated strategies and investment proposals for each domain and ultimately into a proposed IT investment portfolio.

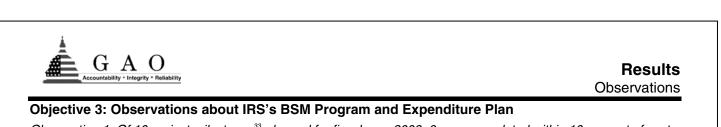
²⁹IRS, Applications Development: 5-Year Plan, "A systems view" Projects – Programs – Retirements & Consolidations.



of progress in delivering systems' planned functionality (scope).³⁰ We also recommended that, in developing this measure. IRS consider using earned value management³¹ since this is a proven technique required by OMB for measuring cost, schedule, and functional performance (i.e., scope of work) against plans. While IRS agreed with our recommendation to develop a quantitative measure of progress in meeting scope expectations, it stated at the time that it did not believe earned value management would provide this measure, given the manner in which the technique was being used at the agency. Instead IRS proposed a two-step approach to address our recommendation.³² As an initial step, IRS developed a qualitative measure that indicated the difference between a project release's planned and delivered capabilities and began using it in the fiscal year 2008 expenditure plan. In March 2008, we reported that, as a second step, IRS planned to leverage its requirements management tools to assign quantitative values to the capabilities in order to develop a quantitative measure of scope in the fiscal year 2009 plan. IRS did not have the measurement of scope ready for the fiscal year 2009 expenditure plan as planned but stated that it was continuing to develop the metric and that a schedule for implementation and inclusion into the annual expenditure plan would depend on the outcome of pilot efforts. IRS stated that it is still in the process of analyzing the results of pilots conducted in August 2008 and February 2009 and plans to present a finalized process to its Application Development organization by March 31, 2010. Fully implementing a quantitative measure of progress in delivering systems' planned functionality will help IRS in managing and controlling BSM.

³⁰GAO, Business Systems Modernization: Internal Revenue Service's Fiscal Year 2007 Expenditure Plan, GAO-07-247 (Washington, D.C.: Feb. 15, 2007).
³¹Earned value management is a project management tool that integrates the investment scope of work with schedule and cost elements for investment planning and control. This method compares the value of work accomplished during a given period with that of the work expected in the period. Differences between accomplishments and expectations are measured in both cost and schedule variances.

³²In December 2007, the Associate Chief Information Officer for Applications Development stated that IRS uses earned value management to measure progress in completing ELC deliverables, not in delivering functionality, and consequently the agency's application of earned value management does not provide a quantitative measure of progress in meeting scope expectations.



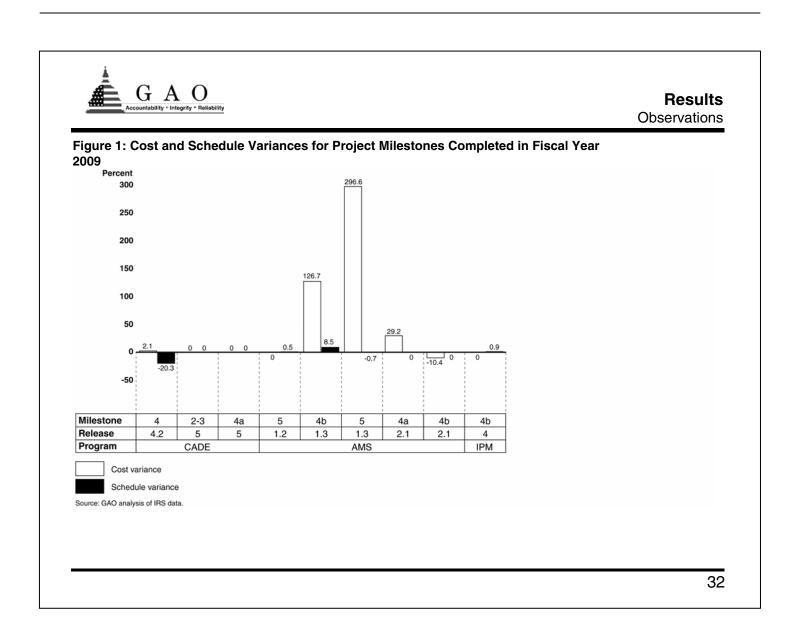
Observation 1: Of 10 project milestones³³ planned for fiscal year 2009, 6 were completed within 10 percent of cost and schedule estimates or early, and 3 were completed on schedule but more than ten percent over cost. For 1 of the milestones, we could not determine cost or schedule variances because IRS had not identified planned cost and schedule information in the fiscal year 2009 expenditure plan.

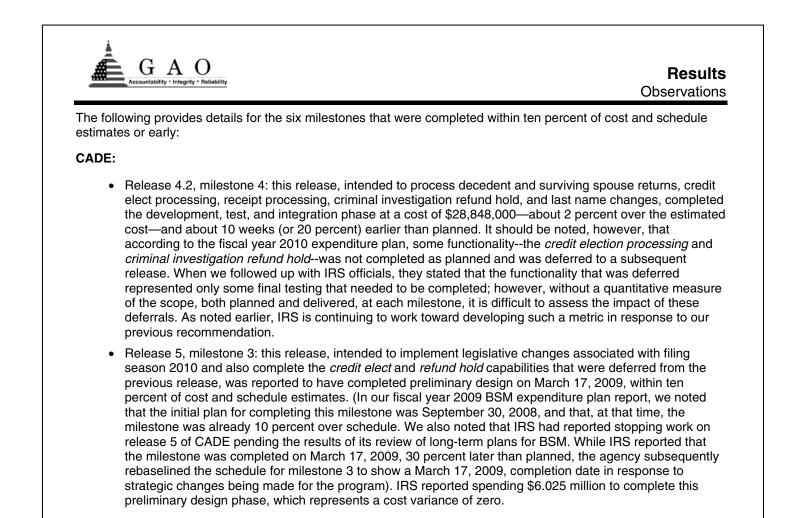
Our analysis of IRS's reported planned and actual milestone costs and completion dates showed that six milestones were completed within 10 percent of cost and schedule estimates or early and three were completed on schedule but more than ten percent over cost, although they were within ten percent of schedule estimates. Release 5 of CADE, intended to implement legislative changes associated with filing season 2010, completed detailed design (milestone 4a) at planned cost and on schedule; the release of AMS which is intended, among other things, to provide for the conversion of the Correspondence Imaging System to a new platform for inventory management, completed development 127 percent over planned cost. We were not able to determine cost or schedule variances of a milestone of MeF, release 6.1, because IRS had not identified planned cost and schedule information for it.³⁴

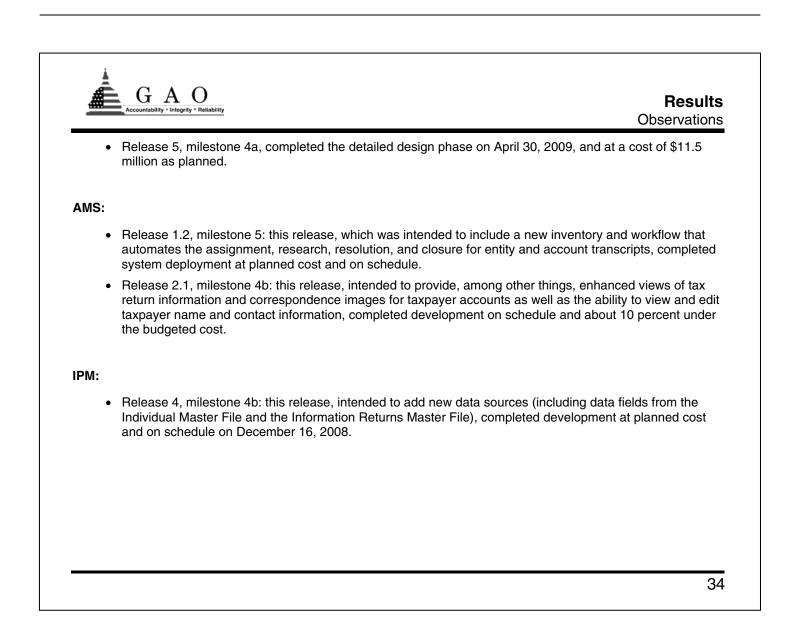
Figure 1 depicts the detailed cost and schedule variances of the project milestones that were completed during fiscal year 2009.

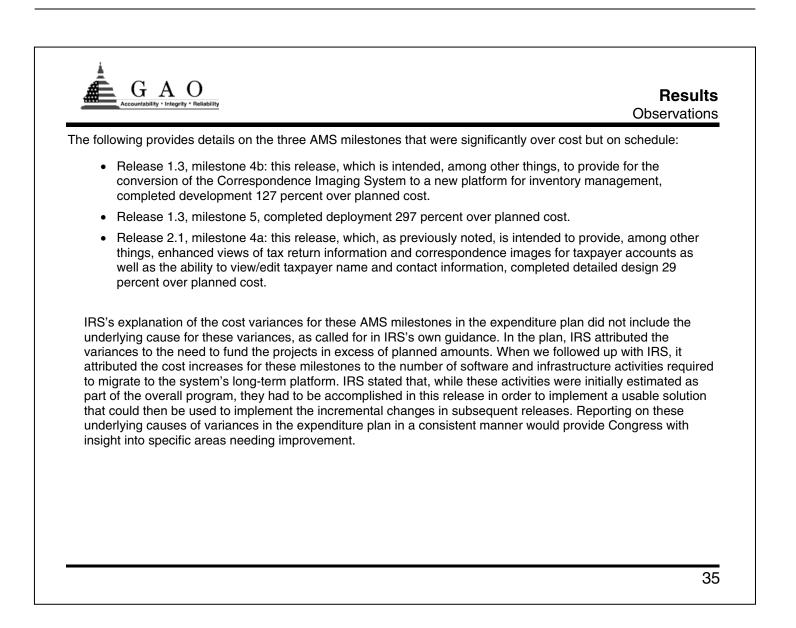
³³IRS's Enterprise Life Cycle Guidance defines seven milestones, each occurring at the end of one of the phases of the life cycle. Milestone 0- at the end of vision and strategy/enterprise architecture, 1- project initiation, 2- domain architecture, 3- preliminary design, 4- development, test, and integration, 5- system deployment. The development, test, and integration phase is sometimes split into two phases, each corresponding to a different milestone: 4a- detailed design and 4b- system development.

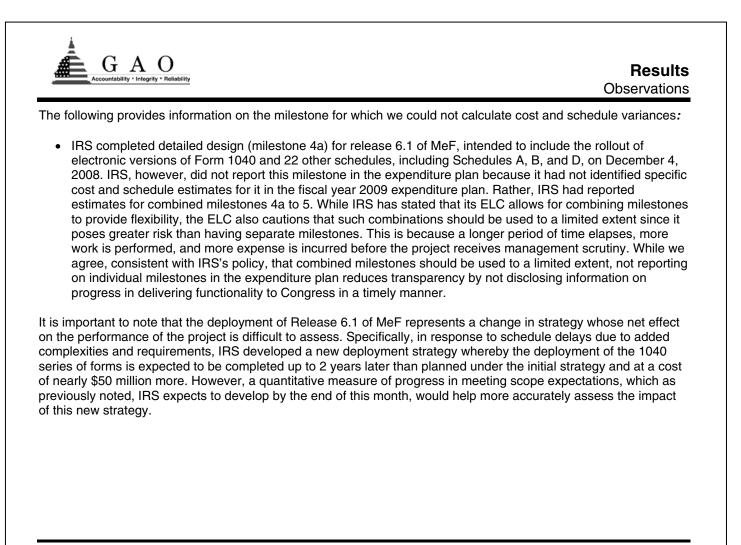
³⁴In the fiscal year 2009 expenditure plan, IRS requested funding for six milestones of AMS. IRS subsequently suspended these milestones pending completion of work to redefine its strategy for managing individual taxpayer accounts.

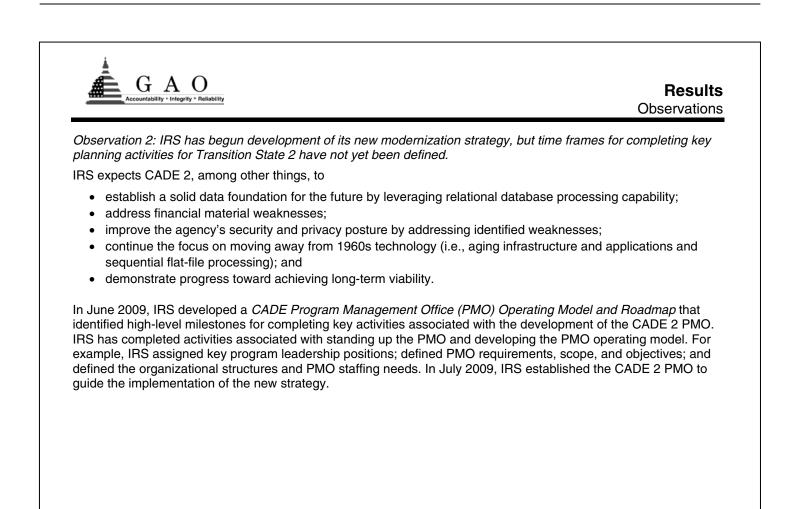


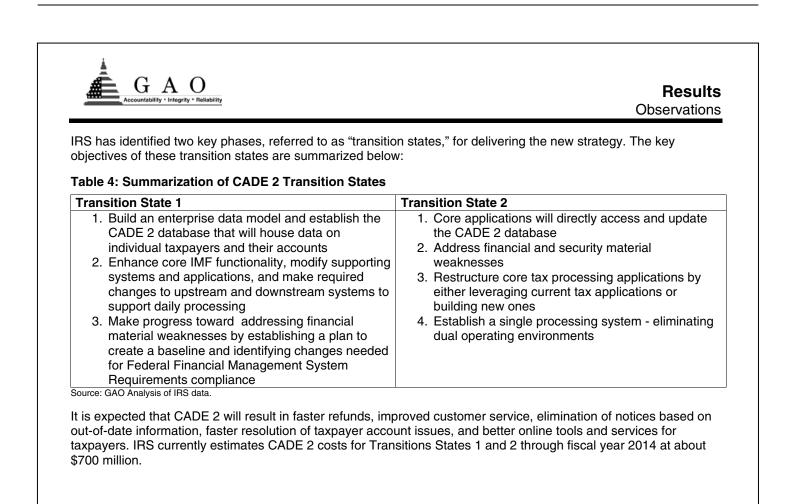


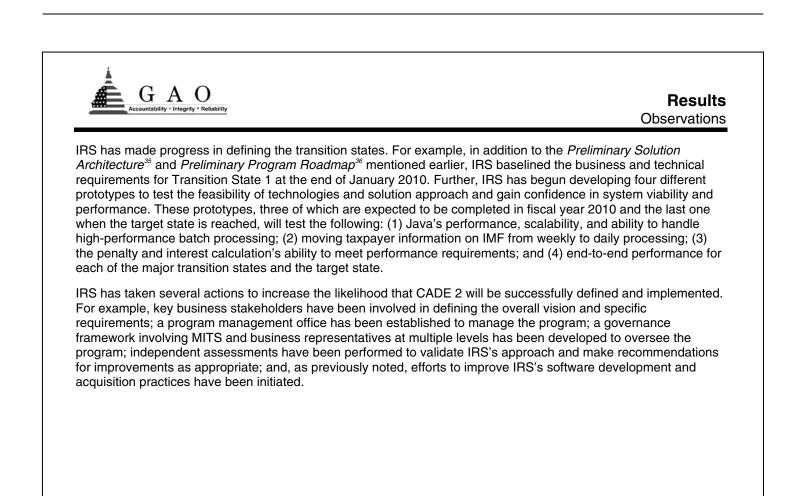






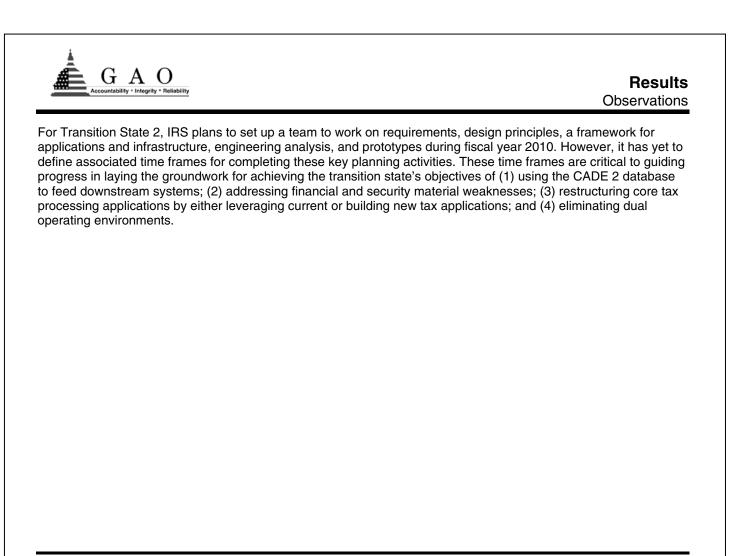


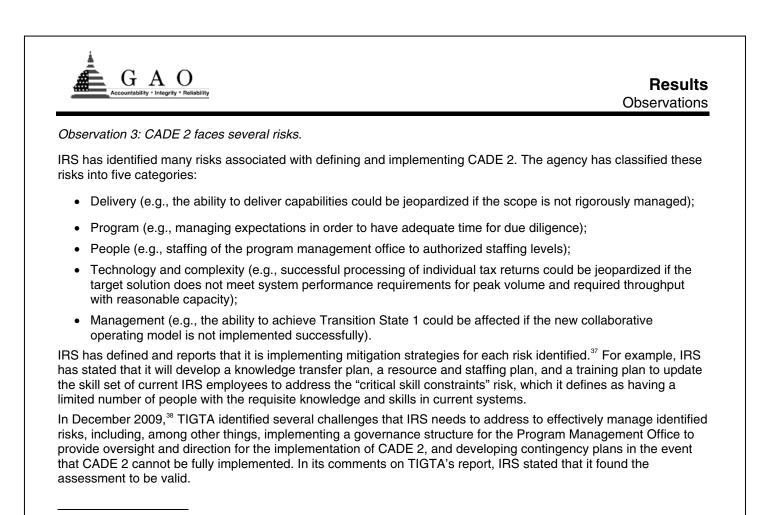




³⁵This document describes the characteristics of the new strategy in both business and technical terms. IRS provided us a final version at the conclusion of our review.

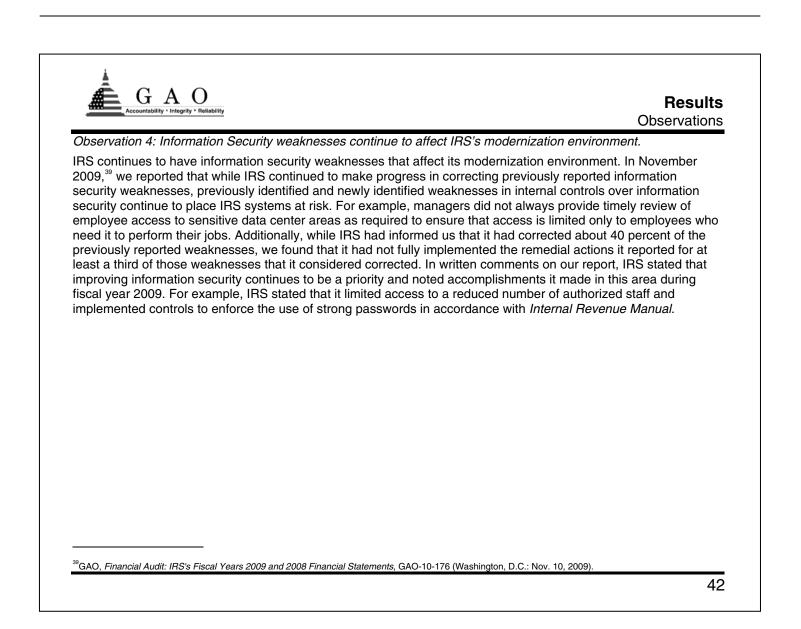
³⁶This document defines a high-level approach for delivering the new strategy and describes high-level milestones for delivering the transition states. IRS provided us a final version at the conclusion of our review.

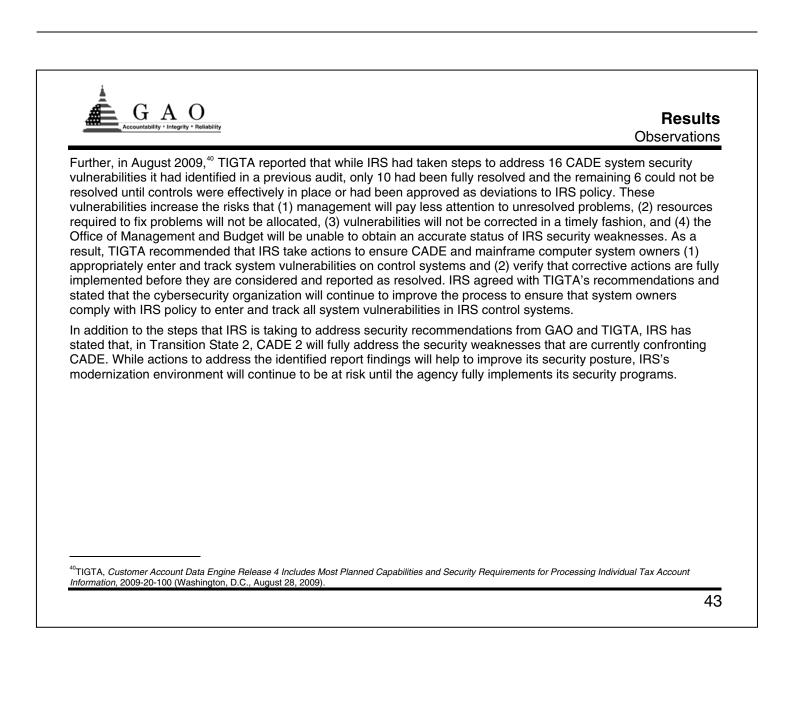


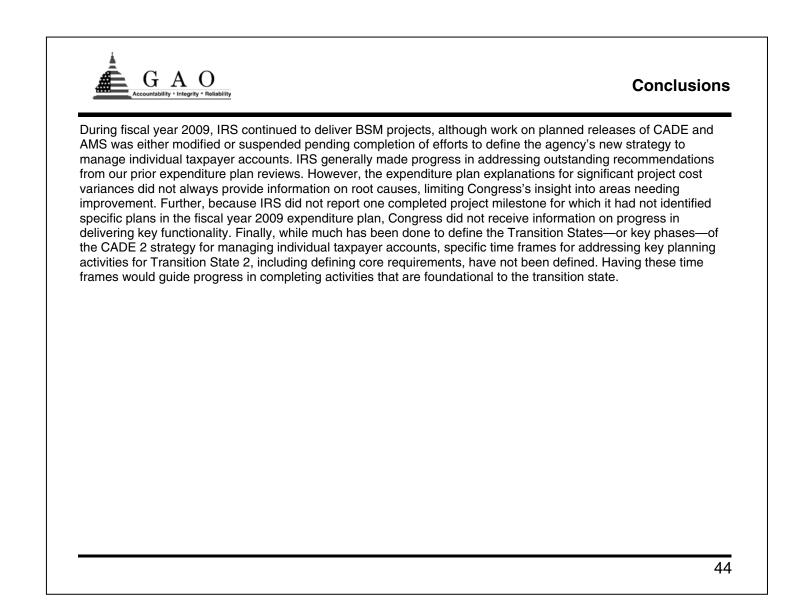


³⁷We did not determine the effectiveness of IRS's methodology for identifying and mitigating risks but plan to do so in a review we have underway of IRS's CADE 2 strategy.

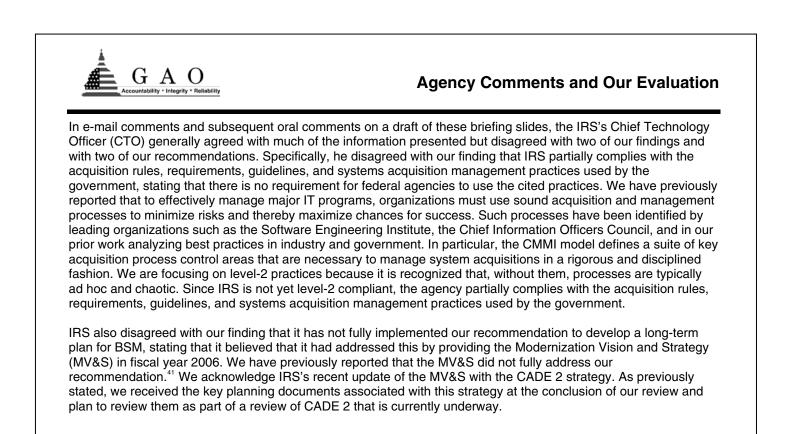
³⁸TIGTA, Reengineering Individual Tax Return Processing Requires Effective Risk Management, 2010-20-001 (Washington, D.C., Dec. 7, 2009).



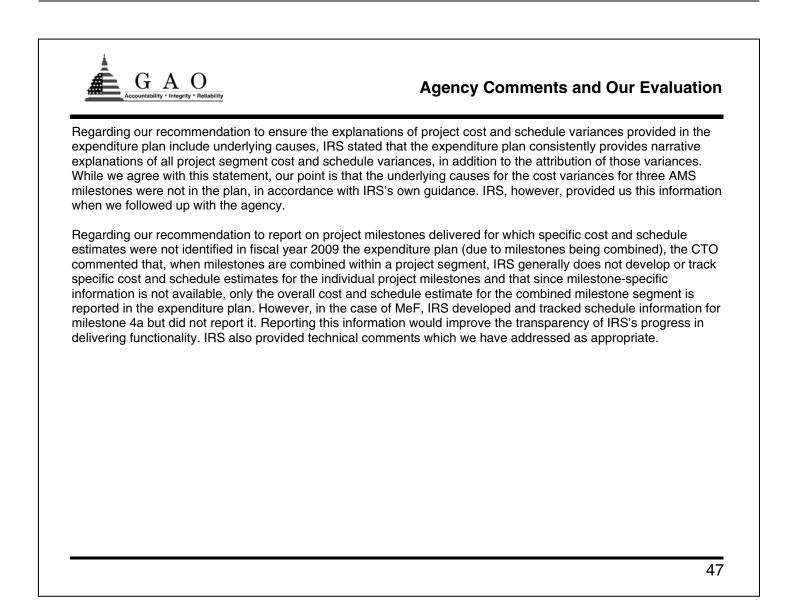




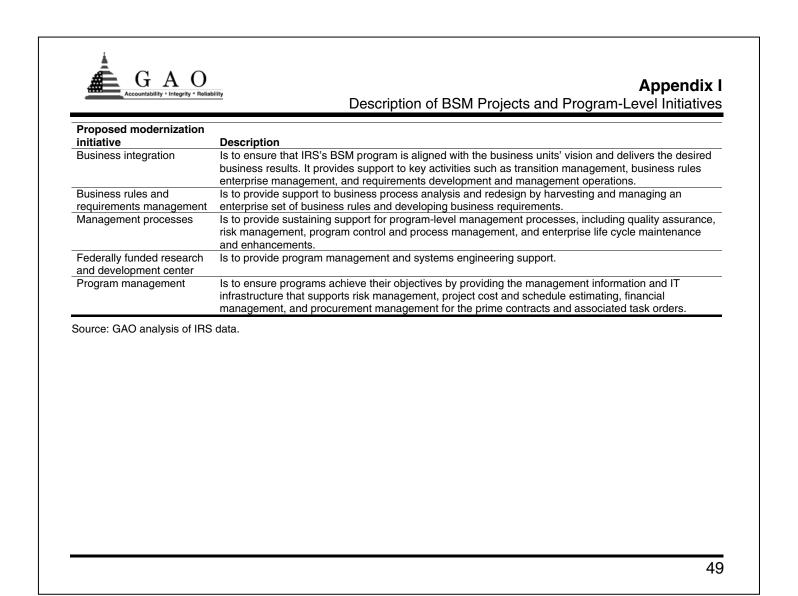
GAO **Recommendations for Executive Action** To improve the program management capabilities and controls that are critical to the effective management of the BSM program, we are recommending that the Commissioner of Internal Revenue direct the Chief Technology Officer to take the following three actions: · ensure that explanations of project cost and schedule variances provided in the expenditure plan consistently include underlying causes; for individual milestones that have been combined, report available performance information in the • expenditure plan to provide Congress with information on progress in delivering functionality; and define specific time frames for CADE 2 Transition State 2 planning activities, including defining a core set of • requirements to guide progress. 45



⁴¹ GAO-09-281.



Proposed modernization initiative	Description
Tax administration projects	
Modernized e-File	Is to provide a single standard for filing electronic tax returns. Initial releases will address large corporations, small business, and tax-exempt organizations. Its ultimate goal is the conversion of IRS's 1040 e-file program.
Current Customer Account Data Engine (CADE)	Is to build the modernized database foundation to replace the existing Individual Master File (IMF) processing system that contains the repository of individual taxpayer information.
Customer Account Data Engine 2 (CADE 2)	Is intended to leverage Current CADE and the IMF, which contain the repository of individual taxpayer information, to provide timely access to authoritative individual taxpayer account information and enhance IRS's ability to address technology, security, financial material weaknesses, and long-term architectural planning and viability.
Core infrastructure projects	
Development, Integration, and Testing Environments	Is to provide oversight for laboratory environments that support evaluation, development, and testing of components from multiple projects: (1) Virtual Development Environment provides a software development environment and a standardized set of tools, and (2) Enterprise Integration and Test Environment provides an integration and testing environment for all projects.
Infrastructure Shared Services	Is to deliver, in incremental releases over multiple years, a fully integrated, shared IT infrastructure to include hardware, software, shared applications, data, telecommunications, security, and an enterprise approach to systems and operations management.
Architecture, integration, and management	
Architecture and integration	Is to ensure that systems solutions meet IRS business needs and that the development projects are effectively integrated into the business environment.



	tional Detail on IRS's Fiscal `		
Proposed modernization initiative	Release®	Milestone/ type of activity ^b	Amount Requested (in thousands)
Tax administration projects			
Modernized e-File (MeF)	6.2	3-5	\$17,000
MeF	7	3-4a	33,000
Subtotal— MeF project			50,000
Current Customer Account Data Engine (CADE)	6.2	4b	22,000
Current CADE	operations and maintenance	Level of Effort (LOE)	16,000
Subtotal—Current CADE project			38,000
CADE 2	Infrastructure	LOE	11,519
CADE 2	Program Management Office	LOE	4,846
CADE 2	Engineering and Analysis	LOE	9,100
CADE 2	Transition State 1	LOE	17,594
CADE 2	Transition State 2	LOE	1,941
CADE 2	Integrated Production Model	LOE	2,654
Subtotal—CADE 2 project			47,654
Subtotal—tax administration projects			135,654
Core infrastructure projects			
Development, integration, and testing environment		Infrastructure (INF)	14,500
nfrastructure Shared Services		INF	17,500
Subtotal—core infrastructure projects			32,000

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	Accountabili	ty • Integr	ity * Reliability

Appendix II

Additional Detail on IRS's Fiscal Year 2010 BSM Expenditure Plan

		Milestone/ type of	Amount Requested (in
Proposed modernization initiative Architecture, integration, and management	Release	activity ^b	thousands)
Architecture and integration		LOE	13,745
Business integration		LOE	4,206
Business rules and Requirements Management		LOE	3,160
Management processes		LOE	3,539
Federally funded research and development center		LOE	7,396
Program management		LOE	2,954
Subtotal—architecture, integration, and management			35,000
Management reserve			5,020
BSM Capital Total			207,674
BSM Labor Total			44,666
Maintaining Current Levels			1,334
Total fiscal year 2010 BSM program			\$253,674

Source: GAO analysis of IRS data.

^aReleases are software versions that provide a subset of the total planned project functionality.

^bMilestones correspond to phases within IRS's enterprise life cycle (0 – vision and strategy/enterprise architecture, 1 – project initiation, 2 – domain architecture, 3 – preliminary design, 4a – detailed design, 4b – system development, 5 – system deployment). According to IRS, *level of effort* activities generally support the overall management of the program, such as contracting or risk management. They do not follow the ELC methodology nor do they directly create end user benefits. They do require the contractor to provide a specified level of effort, over a stated period, on work stated in general terms. *Infrastructure* projects follow many aspects of the ELC but differ from development projects in that they (1) do not have a separate business case, though they have definable costs and general broad benefits; (2) operate based on the support needs of the project, rather than end-user requirements; (3) cannot make changes that are independent from the projects they support, that is, the infrastructure projects must synchronize changes with the application projects and assess the impact; and (4) project teams have no direct control over external changes (e.g., a new requirement for an application project) that will drive cost fluctuations.

	nows the projects co			eduled for Completion in Fiscal Year 2009
Project segment	Estimated completion date and funding (in thousands)	Milestone exit and cost (in thousands)	Change (%)	IRS explanation of change
AMS Release 1.2 Milestone 5	11/11/08 \$1,060	11/13/08 \$1,060	1 day (0.5%)	Exit was completed one day later than planned due to the
	. ,		(0%)	5
AMS Release 1.3 Milestone 4b	11/11/08 \$3.747	12/05/08 \$8,494	16 days (8.5%) \$4.747	development of the environment resulted in approximately
			+)	variance was due to development costs significantly exceeding estimates and required realignment of AMS project funds to continue funding the development of this release.
AMS Release 1.3	05/31/09	05/28/09	· · · ·	variance was due to development costs significantly
Milestone 5	\$1,006	\$3,990	\$2,984 (296.6%)	· · · · · · · · · · · · · · · · · · ·
AMS Release 2.1	12/09/08	12/09/08	0 days (0%)	Variance is due to the need for additional funding to complete software and infrastructure design activities.
Milestone 4a	\$2,522	\$3,258	\$736 (29.2%)	
AMS Release 2.1	08/05/09	08/05/09	0 days (0%)	Variance is due to slightly less funding needed for development activities than original planned amounts.
Milestone 4b	\$4,402	\$3,946	-\$456 (-10.4%)	
CADE Release 4.2	03/31/09	01/15/09	(-20.3%)	
Milestone 4	\$28,265	\$28,848		functionality deferred to subsequent release. Cost variance resulted from the need to fund development activities related to additional unplanned requirements and legislative changes associated with the filing season.

	A O B Reported Cost an	d Schedule for Pi	ojects Sch	Appendix II eduled for Completion in Fiscal Year 2009
Project segment	Estimated completion data and funding (in thousands)	Milestone exit and cost (in thousands)	Change (%)	IRS explanation of change
CADE	03/17/09	03/17/09	0 days	Note: This planned exit date represents a rebaseline of
Release 5			(0%)	an earlier estimate of 9/30/08.
Milestones 2-3	\$6,025	\$6,025	\$0 (0%)	
CADE	04/30/09	04/30/09	0 days	Note: This planned exit date represents a rebaseline of
Release 5			(0%)	an earlier estimate of 11/30/08.
Milestone 4a	\$11,500	\$11,500	\$0	
			(0%)	
IPM ^ª	12/15/08	12/16/08	1 day	
			(0.9%)	
Release 4	\$563	\$563	\$0	
Milestone 4b			(0%)	

Note: Variances for projects through milestone 3 are based on rough order of magnitude estimates. Post-milestone-3 variances are based on more specific estimates.

^a IRS also completed additional milestones for IPM. However, we are not reporting on these because funding for them was not requested in the fiscal year 2009 expenditure plan.

Appendix II: Comments from the Internal Revenue Service

DEPARTMENT OF THE TREASURY INTERNAL REVENUE SERVICE WASHINGTON, D.C. 20224 DEPUTY COMMISSIONER April 27, 2010 Mr. David A. Powner Director, Information Technology Management Issues U.S. Government Accountability Office 441 G Street, N.W. Washington, DC 20548 Dear Mr. Powner: I reviewed the Government Accountability Office draft report titled "Business Systems Modernization: Internal Revenue Service's Fiscal Year 2010 Expenditure Plan," (Government Accountability Office 10-539). We appreciate that your draft report recognizes the progress that the Internal Revenue Service has made to improve our program management capabilities and controls. We will review the three new recommendations the Government Accountability Office reported to ensure our actions include assuring that underlying causes for project cost and schedule variances are consistently provided in the expenditure plan. We will provide the detailed corrective action plan addressing each of the recommendations with our response to the final report. We appreciate your continued support and the assistance and guidance from your staff. If you have any questions or would like to discuss our response in more detail, please contact Terence V. Milholland, Chief Technology Officer, at (202) 622-6800. Sincerely Mark A. Ernst Deputy Commissioner, **Operations Support**

Appendix III: GAO Contact and Staff Acknowledgments

GAO Contact	David A. Powner, (202) 512-9286 or pownerd@gao.gov
Staff Acknowledgments	In addition to the individual named above, Sabine R. Paul, Assistant Director; Neil Doherty; Mary D. Fike; Nancy Glover; Lee McCracken; Paul B. Middleton; and Krzysztof Pasternak made key contributions to this report.

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