# GAO Highlights

Highlights of GAO-23-104719, a report to the Honorable Gerald E. Connolly, House of Representatives

## Why GAO Did This Study

IRS relies extensively on IT to annually collect trillions of dollars in taxes, distribute hundreds of billions of dollars in refunds, and carry out its mission of providing service to America's taxpayers in meeting their tax obligations. This reliance on IT includes a significant amount of outdated legacy systems that pose risks. At the same time, IRS has increasingly used internet-based computing services (i.e., cloud services) to address its IT modernization needs.

GAO was asked to review IRS's legacy environment and cloud computing implementation. This report, among other things, 1) describes IRS's legacy IT environment; 2) assesses IRS's modernization plans; and 3) evaluates its cloud computing efforts.

To do so, GAO analyzed legacy applications, software, and hardware data; assessed plans for 21 modernization initiatives against practices identified in prior GAO work; and compared IRS's cloud computing documentation to relevant federal requirements. GAO also interviewed knowledgeable IRS officials.

### **What GAO Recommends**

GAO is making nine recommendations to IRS, including that it establish time frames to complete selected modernization plans, and fully address OMB's cloud computing requirements. IRS agreed with all nine recommendations.

View GAO-23-104719. For more information, contact David B. Hinchman at (214) 777-5719, or hinchmand@gao.gov.

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## INFORMATION TECHNOLOGY

## IRS Needs to Complete Modernization Plans and Fully Address Cloud Computing Requirements

### What GAO Found

The Internal Revenue Service's (IRS) legacy IT environment includes applications, software, and hardware, which are outdated but still critical to day-to-day operations. Specifically, GAO's analysis showed that about 33 percent of the applications, 23 percent of the software instances in use, and 8 percent of hardware assets were considered legacy. This includes applications ranging from 25 to 64 years in age, as well as software up to 15 versions behind the current version. As GAO has previously noted, and IRS has acknowledged, these legacy assets will continue to contribute to security risks, unmet mission needs, staffing issues, and increased costs.

Modernization best practices call for documenting plans that include three key elements: milestones, work to be performed, and disposition of legacy systems. As of August 2022, IRS had documented plans for the 21 modernization initiatives that were underway, including nine associated with legacy systems. All 21 plans addressed two key elements. However, the plans for six of the nine initiatives did not address the disposition of legacy systems (see table). Officials stated they would address this key element at the appropriate time in the initiatives' lifecycle; however, they did not identify time frames for doing so.

## GAO Assessment of the Internal Revenue Service's (IRS) Modernization Plans as of August 2022

Modernization plan element	Yes	No	Not applicable
Includes milestones	21	0	0
Describes work to be			
performed	21	0	0
Includes disposition of			
legacy systems	3	6	12ª

Source: GAO analysis of IRS documents. | GAO-23-104719

IRS recently suspended operations of six initiatives, including two which are essential to replacing the 60-year old Individual Master File (IMF). The IMF is the authoritative data source for individual tax account data. GAO has reported that IRS has been working to replace IMF for well over a decade. According to officials, the suspensions were due to IRS's determination to shift resources to higher priorities; staff members working on these suspended initiatives were reassigned to other projects. As a result, the schedule for these initiatives is now undetermined. Accordingly, the 2030 target completion date for replacing the IMF that IRS announced last year is now unknown. This will lead to mounting challenges in continuing to rely on a critical system with software written in an archaic language requiring specialized skills.

IRS's cloud computing efforts fully addressed 11, partially addressed one, and did not address two requirements identified in the Office of Management and Budget's June 2019 cloud computing strategy. Key shortfalls include IRS not conducting regular evaluations of customer experiences and user needs. Until IRS fully addresses all cloud computing requirements, it will have less assurance that it is adopting cloud solutions that efficiently and effectively help it meet its mission needs and protect sensitive taxpayer information.

\_ United States Government Accountability Office

<sup>&</sup>lt;sup>a</sup>These initiatives were not associated with legacy systems.