Public Summary Report: Virginia Did Not Adequately Secure Its Medicaid Data

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May 2017
A-04-15-05066
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recommendations in this report represent the findings and
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divisions will make final determination on these matters.
This summary report provides an overview of the results of our audit of the information system general controls over the Virginia Medicaid claims processing systems. It does not include specific details of the vulnerabilities that we identified because of the sensitive nature of the information. We have provided more detailed information and recommendations to the Virginia Department of Medical Assistance Services (DMAS) so that it can address the issues we identified. The findings listed in this summary report reflect a point in time regarding system security and may have changed since we reviewed these systems.

WHY WE DID THIS REVIEW

The U.S. Department of Health and Human Services (HHS) oversees States’ use of various Federal programs, including Medicaid. State agencies are required to establish appropriate computer system security requirements and conduct biennial reviews of computer system security used in the administration of State plans for Medicaid and other Federal entitlement benefits (45 CFR § 95.621). This review is one of a number of HHS, Office of Inspector General, reviews of States’ computer systems used to administer HHS-funded programs.

DMAS is the single Virginia agency designated to administer or supervise the administration of Virginia’s Medicaid program. In administering this program, DMAS uses an outside contractor to develop and operate the Virginia Medicaid claims processing system. Virginia’s Medicaid program processed $8.2 billion in claims for 1,277,214 beneficiaries in fiscal year (FY) 2015. The Virginia Information Technology Agency (VITA) supports the DMAS Medicaid Management Information System (MMIS) by providing cybersecurity, information technology (IT) infrastructure services, and IT governance. VITA uses the National Institute of Standards and Technology (NIST) Special Publication 800-53, Revision 4, Recommended Security Controls for Federal Information Systems and Organizations, as its security standard and requires its use throughout Virginia.

The objective of our audit was to determine whether Virginia adequately secured its Medicaid data and information systems in accordance with Federal requirements.

HOW WE CONDUCTED THIS REVIEW

We assessed Virginia’s policies, procedures, and information system general controls over its MMIS in place as of September 2015. To accomplish our objective, we reviewed Virginia’s information system general controls over its computer-processed data using MMIS security.

1 Sections 1903(a)(3) and 1903(r) of Title XIX of the Social Security Act require States to implement an MMIS to enhance the efficiency and effectiveness of the Medicaid program. MMIS is a commonly accepted term for an automated claim processing and information retrieval system used to process Medicaid claims and to produce service utilization and management information required for program administration and audit purposes.
requirements\textsuperscript{2} and related NIST security control guidance. We reviewed Virginia’s MMIS policies and procedures, interviewed staff, and reviewed supporting documentation provided by Virginia. In addition, we used vulnerability assessment scanning software to determine whether security-related vulnerabilities existed on selected network devices, Web sites, servers, and databases supporting the MMIS.

We conducted this performance audit 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. We communicated to Virginia our preliminary findings in advance of issuing our draft report.

WHAT WE FOUND

Virginia did not adequately secure its Medicaid data and information systems in accordance with Federal requirements. Although Virginia had adopted a security program for its MMIS, numerous significant system vulnerabilities remained. These vulnerabilities remained because Virginia neither implemented sufficient controls over its Medicaid data and information systems nor provided sufficient oversight to ensure that its contractor implemented contract security requirements. Although we did not identify evidence that anyone had exploited these vulnerabilities, exploitation could have resulted in unauthorized access to and disclosure of Medicaid beneficiary data, as well as the disruption of critical Medicaid operations. These vulnerabilities were collectively and, in some cases, individually significant and could have compromised the integrity of Virginia’s Medicaid program.

WHAT WE RECOMMENDED

We recommended that Virginia improve its Medicaid security program to secure Medicaid data and information systems in accordance with Federal requirements, provide adequate oversight to its contractor, and address the vulnerabilities identified during our audit. Specifically, we recommended that Virginia enhance its Medicaid:

\begin{itemize}
\item systems and information integrity controls,
\item risk management process,
\item access and authentication controls,
\item audit and accountability controls,
\item system and communications protection controls,
\end{itemize}

\textsuperscript{2} We did not review the MMIS information system requirements for physical security, contingency plans, emergency preparedness, or designation of an information system security manager.
• configuration management controls.

VIRGINIA COMMENTS

In written comments on our draft report, Virginia concurred with our recommendations and described corrective actions that it had taken or planned to take.
APPENDIX: RELATED OFFICE OF INSPECTOR GENERAL REPORTS

AUDITS OF MEDICAID MANAGEMENT INFORMATION SYSTEM AT STATES

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