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# **E-Verify Vendor Data Security**

## **Special Review**

**April 21, 2010**

**Report 10-15**

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## OFFICE OF THE LEGISLATIVE AUDITOR

State of Minnesota • James Nobles, Legislative Auditor

April 21, 2010

Senator Ann H. Rest, Chair  
Legislative Audit Commission

Members of the Legislative Audit Commission

Mr. Tom Hanson, Commissioner  
Department of Management and Budget

This report presents the results of our special review of data security concerns related to the vendor, Lookout Services, Inc., selected to help state government implement E-Verify. We initiated the review after learning that a state employee had allegedly detected that E-Verify data could be accessed on Lookout Services' web site without adequate security protection.

We received the full cooperation of officials and staff at the Department of Management and Budget and the Office of Enterprise Technology.

Handwritten signature of James R. Nobles in black ink.

James R. Nobles  
Legislative Auditor

Handwritten signature of Cecile M. Ferkul in black ink.

Cecile M. Ferkul, CPA  
Deputy Legislative Auditor



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# Report Summary

In January 2008, Governor Pawlenty ordered the state to use E-Verify, a federal Web-based system that allows employers to verify whether newly hired employees are eligible to work in the United States. Use of the system requires the transmission of data—such as social security numbers—classified by law as not public.

The Office of the Legislative Auditor (OLA) conducted a special review of data security concerns related to state government's use of a private vendor, Lookout Services, Inc., to facilitate implementation of E-Verify. Our review focused on the actions of officials and staff in the Department of Employee Relations, which was initially responsible for implementation of E-Verify, and the Department of Management and Budget, which assumed responsibility for E-Verify after the departments of Employee Relations and Finance merged.

## Findings

- The Department of Employee Relations conducted a limited assessment of Lookout Services before signing an agreement with the company to be the state's E-Verify vendor, and the agreement did not adequately address data security.
  - After becoming responsible for implementing E-Verify and the state's agreement with Lookout Services in June 2008, the Department of Management and Budget left the data security issues unresolved and E-Verify unimplemented for over a year.
  - The Department of Management and Budget renewed efforts to implement E-Verify after OLA issued an evaluation report in June 2009, but the department continued to make only limited efforts to obtain additional information about Lookout Services' ability and willingness to protect Minnesota's not public E-Verify data.
  - The Department of Management and Budget made a limited response when alerted in November 2009 to possible data security problems at Lookout Services.
  - The Department of Management and Budget suspended the state's use of Lookout Services after receiving a second notice in December 2009 that not public data on the company's Web site was not adequately secured. However, the department did not have state information technology staff assess the nature of the problem or the extent of its impact, and its notification letter to people potentially affected by the problem was based on information from Lookout Services.
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# E-Verify Vendor Data Security

## Overview

E-Verify is a Web-based system administered by the Department of Homeland Security in partnership with the Social Security Administration. It was established to help employers comply with the Immigration Reform and Control Act,<sup>1</sup> which requires employers to verify that newly hired employees are eligible to work in the United States.<sup>2</sup> To comply with the law, employers must complete an Employment Eligibility Verification Form, also known as an “I-9,” for every employee within three days of being hired. While the form can be completed on paper, E-Verify allows employers to complete it electronically and submit I-9 data over the Internet for analysis by federal data systems. An I-9 form contains personal data, such as an employee’s name, address, date of birth, and social security number. Therefore, using E-Verify involves the transmission of not public data over the Internet.<sup>3</sup>

On January 7, 2008, Governor Pawlenty signed an executive order requiring use of E-Verify for newly hired employees in the executive branch of Minnesota state government.<sup>4</sup> Primary responsibility for implementation was assigned to the Department of Employee Relations. The department decided to hire a private company, Lookout Services, Inc., to facilitate implementation.

On December 10, 2009, the State of Minnesota suspended its agreement with Lookout Services. The action came after state officials learned that not public data on the company’s Web site could be accessed without adequate security protection. On December 17, 2009, the Office of the Legislative Auditor (OLA) announced a special review of the circumstances that led to the state’s action.

We made the decision to conduct a special review for two reasons. First, we wanted to follow up on an E-Verify evaluation report we issued in June 2009. During the evaluation, we learned that data security concerns related to the state’s agreement with Lookout Services had stalled implementation of E-Verify. We wanted to determine whether those concerns were adequately resolved before the

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<sup>1</sup>8 U.S.C. 1324a(a), *Immigration Reform and Control Act*.

<sup>2</sup>Federal rules prevent employers from using E-Verify to prescreen applicants for employment; data can only be submitted after a person has been offered employment. However, a negative result from E-Verify can be used to terminate an employment offer.

<sup>3</sup>According to *Minnesota Statutes* 2009, 13.02, subd. 8a, “not public data” include any government data which is classified by statute, federal law, or temporary classification as confidential, private, nonpublic, or protected nonpublic.

<sup>4</sup>The governor’s executive order also required state contract vendors and certain employers receiving state subsidies to certify their compliance with federal immigration laws.

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state moved forward to use Lookout Services as an E-Verify vendor. Second, we wanted to assess how state officials responded when informed that not public data on Lookout Services' Web site could be accessed without adequate security protection.

## Scope and Methodology

Our review focused on the actions of executive officials in Minnesota state government and addressed the following questions:

- Did the Department of Employee Relations adequately assess Lookout Services before selecting the company to be the state's E-Verify vendor, and did the agreement it signed with the company adequately address data security?
- After assuming the responsibilities of the Department of Employee Relations in a merger, did the Department of Management and Budget<sup>5</sup> adequately resolve concerns about the state's agreement with Lookout Services before requiring state agencies to begin using Lookout Services to implement E-Verify?
- Did the Department of Management and Budget respond adequately when notified of possible data security problems related to Lookout Services?

To answer these questions, we interviewed officials and staff involved in implementing E-Verify, hiring Lookout Services, and responding to notifications of possible security problems at the company. In addition, we interviewed the state employee who first detected the data security problem at Lookout Services. We also reviewed documents, including e-mails, related to implementing E-Verify, hiring Lookout Services, and responding to reports of security problems at the company's E-Verify Web site. Finally, we reviewed information sent to us by Lookout Services.

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<sup>5</sup>The department is also referred to as Minnesota Management and Budget (MMB).

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## Findings and Recommendations

### Finding 1

**The Department of Employee Relations conducted a limited assessment of Lookout Services before signing an agreement with the company to be the state's E-Verify vendor, and the agreement did not adequately address data security.**

To implement the governor's executive order, state agencies could have been allowed to connect directly to E-Verify through the Web site administered by the U.S. Department of Homeland Security. However, the Department of Employee Relations decided to require agencies to connect through a private E-Verify vendor. E-Verify vendors provide Web-based services designed to enhance the use of E-Verify. For example, the department thought an E-Verify vendor's software would help ensure the accuracy of the state's I-9 data and compliance with federal requirements. In addition, the department wanted a vendor to provide a central electronic storage site for the state's I-9 data. Without a central data storage site, I-9 data would be maintained by individual agencies and would, therefore, not be readily available for use by state government or for review by federal authorities.

As with other types of information technology services that principally involve software, E-Verify vendors typically sell their services through a service agreement (also referred to as a "subscription"). The service agreement normally includes a license to use the vendor's software and provisions related to other services, such as training and a "help desk."

To identify potential E-Verify vendors, a Department of Employee Relations program manager working on implementation of E-Verify conducted an Internet search and identified several companies to consider. Shortly thereafter, program managers in the department selected Lookout Services, a company based in Bellaire, Texas, as the most promising possibility based on criteria established by the department and agencies that were going to use E-Verify.

According to the program managers involved, Lookout Services was selected based on four criteria: (1) Lookout Services was a U.S. Department of Homeland Security "designated agent" for E-Verify;<sup>6</sup> (2) Lookout Services had the ability to

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<sup>6</sup>Although department officials and program managers thought being a Homeland Security "designated agent" was significant, the designation can be attained simply through a registration process that does not involve a substantive certification by the federal government. For E-Verify, the federal government defines a "designated agent" as any U.S. company, corporation, or business entity acting as a service provider using E-Verify to verify the employment eligibility of clients' new hires. Like other E-Verify users, designated agents must enroll in E-Verify and sign a memorandum of understanding agreeing to abide by system rules and responsibilities.

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provide centralized electronic storage through its contract with a second company, Adhost, based in Seattle, Washington; (3) Lookout Services' software was deemed to have "good functionality" and seemed relatively easy to use; and (4) Lookout Services offered the lowest price.

In an e-mail dated February 14, 2008, the program manager that selected Lookout Services said:

After reviewing a number of vendors, Lookout meets our requirements and has offered best pricing. They are the likely choice unless we identify major concerns with their ability to handle the state structure and how we do business.

In a later e-mail, another program manager said: "This vendor [Lookout Services] is too good to be true. I like their pricing approach." In fact, price was the deciding factor in the department's choice of Lookout Services to be the state's E-Verify vendor. Lookout Services proposed a price of \$1.25 per I-9 transaction, which was four to five times lower than other vendors.<sup>7</sup> In addition, Lookout Services was willing to waive its "set-up fee." The program manager working on implementation of E-Verify estimated that the total annual cost of an agreement with Lookout Services would be \$8,750.

One of the program managers involved in the selection of Lookout Services described the decision to hire the company as follows:

We had minimum criteria. You know, they've got to be a designated agent, you've got to do this, that and the other thing, you've got to have checking, you have to produce -- you have to do reminder kinds of things for people who need re-verification. But ...among the people that we demo'd, other than a couple that we just kind of rejected out of hand for various reasons, among what I would consider the finalists, it really came down to cost.

Program managers were concerned about cost in part because the department had not established a budget for the E-Verify vendor services it was seeking. One of the program managers involved in the search for a vendor told us:

I was not given a budget at all, no. What we were trying to do is beg, borrow, and steal to try and do something to solve this need. And what we were hoping is that we could come forward with a solution that we could manage somehow.

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<sup>7</sup>According to department documents, it received quotes from other vendors that ranged from \$3.50 to \$7.50 per I-9 transaction. When asked why Lookout Services was willing to price its services so much lower than other vendors, one of the department program managers involved in selecting Lookout Services said it was because E-Verify was a "sideline" business of Morley and Morley, a small law firm that specialized in immigration law.

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In addition to not having a budget for implementation of E-Verify, the department did not conduct a formal assessment of the data security risks involved with using an E-Verify vendor and did not conduct an independent security review of Lookout Services. In fact, information technology staff at the Office of Enterprise Technology and within the Department of Employee Relations were involved only to a limited degree in the selection of an E-Verify vendor.

According to an e-mail dated January 10, 2008, from an information technology manager within the department to other department staff working on implementation of E-Verify, the state's chief information security officer was contacted about the use of a vendor to implement E-Verify. According to the e-mail, the state's chief information security officer told the department official that his information security team was "swamped" with other projects and would not be able to participate in the selection process. Again, according to the e-mail:

He [the state's chief information security officer] stated it is common practice to enter into contracts with vendors regarding services that require them to store nonpublic data, and he sees the State continuing to do that more and more as we realize the benefits of outsourcing rather than building or maintaining systems internally.

To him, the most important aspect is ensuring we have a strong contractual agreement with the selected vendor. He strongly encourages us to review the contract DOER [the Department of Employee Relations] has with Blue Cross Blue Shield. He recalls looking at that language as it is strong in many areas, such as adequate controls, security (audit) requirements, and liability. He is willing to answer questions as needed.

The department's information security staff did participate in teleconference interviews with potential vendors and were asked to raise questions and listen for any information that caused "red flags." They also reviewed documents provided by Lookout Services. However, the documents they were given to review were limited. One information security staff person who reviewed the documents told us the documents were the "advertising version" of what companies claim to have as security. He also told us he was surprised at how little he was asked to be involved in the selection process given that the vendor would receive, transmit, and store not public data provided by Minnesota state agencies. He suggested the department could have taken several additional steps to assess a vendor's security controls, but it did not. For example, he said the department could have obtained documentation of the vendor's security policies and procedures and evidence that they were being followed. He also suggested the department could have done some testing of Web-based applications.

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Despite these concerns and reservations, the consensus conclusion of the department's information technology staff about Lookout Services was positive. It was conveyed in an e-mail dated February 26, 2008, which said: "Overall, it looks like the vendor [Lookout Services] has a secure environment and good security practices. We don't have specific concerns."

As an alternative to obtaining more information about security at Lookout Services, information technology staff emphasized the need for security-related provisions in the service agreement. For example, the February 26, 2008, e-mail quoted above also recommended that there should be specific language in the service agreement regarding the role of the data storage company, Adhost, and how security breaches would be handled by both Lookout Services and Adhost. The recommendation reflected the advice reportedly given in January by the state's chief information security officer.

On March 16, 2008, the commissioner of Employee Relations approved having the department move forward with Lookout Services as the state's E-Verify vendor, saying in an e-mail, "Let's get this done." The commissioner signed a service agreement with Lookout Services on April 4, 2008. It was Lookout Services' "Standard Service Agreement," and the commissioner signed it without additions, amendments, or restrictions that reflected the state's data security interests.

On April 10, 2008, the staff person who had emphasized the need for strong data security provisions in the state's E-Verify vendor agreement sent an e-mail to a colleague, which said, "Thanks for sending me a copy [of the Lookout Services agreement] ...it's the first time I've seen it." She went on to express numerous concerns about deficiencies in the agreement. One of the most significant deficiencies involved what the agreement said about the company's lack of responsibility for encrypted data. She called the company's position "unacceptable." She was referencing the following language in the agreement:

Licenser [Lookout Services] assumes no responsibility for Licensee's [State of Minnesota's] encrypted data that is sent to, stored on, or retrieved off of a Licenser's server. The SSL technology used to encrypt data being transmitted to or from Licenser's secure server, if any, is licensed by Licenser and Licenser makes no claims or warranties regarding the viability, integrity, quality, endurance, sturdiness, strength, or robustness of the encryption used. Further, Licenser is not responsible for any failure of the secure server to properly encrypt data. By using the secure server, Licensee assumes the risk that the encryption algorithm may be broken so that the data being transmitted is visible to others.

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She also pointed out that the agreement had “no mention of Licensor liability in the event of a security breach,” and noted that the state’s chief information security officer had strongly recommended that any information technology agreement should include language that clearly defined responsibility for security breaches.

Because of these concerns, the Department of Employee Relations put the state’s agreement with Lookout Services and implementation of E-Verify on hold. State agencies continued to use their existing—largely paper-based—methods of completing I-9 forms and storing I-9 data to comply with the federal Immigration Reform and Control Act.

**After becoming responsible for implementing E-Verify and the state’s agreement with Lookout Services in June 2008, the Department of Management and Budget left the data security issues unresolved and E-Verify unimplemented for over a year.**

## Finding 2

On June 1, 2008, the departments of Employee Relations and Finance merged into the Department of Management and Budget. As a result, issues related to the state’s agreement with Lookout Services and implementation of E-Verify became the responsibility of the Department of Management and Budget. However, several department officials we interviewed acknowledged they had many immediate and pressing issues to address in the months following the merger, and issues related to the Lookout Services agreement and E-Verify implementation were not among their highest priorities.

Department officials did ask the Attorney General’s Office to draft an addendum to the state’s agreement with Lookout Services aimed at correcting the deficiencies that had stalled implementation of E-Verify. The communications that occurred between the representative of the Attorney General’s Office and Lookout Services during this time demonstrated that there was a clear connection between security and the company’s pricing of its services. For example, in an e-mail to a representative of the Attorney General’s Office dated September 10, 2008, an official at Lookout Services acknowledged the company had priced its agreement with the State of Minnesota to exclude liability for some security concerns. The e-mail said:

Yes... security and liability are significant pricing issues. The language currently in the contract absolves us of liability for the use of the Internet and security through encryption because we don’t control this aspect of the transfer.

Despite the importance of security and the link between security and Lookout Services’ approach to pricing its services, the department considered, but did not propose, to pay more if the company would assume more responsibility for the

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security of Minnesota's E-Verify data. In fact, the data security concerns related to the state's agreement with Lookout Services received little additional attention within the Department of Management and Budget until OLA issued a report on E-Verify in June 2009 noting the lack of progress in implementing the governor's E-Verify executive order.

### Finding 3

**The Department of Management and Budget renewed efforts to implement E-Verify after OLA issued an evaluation report in June 2009, but the department continued to make only limited efforts to obtain additional information about Lookout Services' ability and willingness to protect Minnesota's not public E-Verify data.**

On June 10, 2009, OLA issued its evaluation report on E-Verify noting the department's lack of progress in implementing the governor's executive order.<sup>8</sup> Shortly after the report was released, the governor's chief of staff told department officials to make implementation a high priority. In response, there were renewed efforts to amend the state's agreement with Lookout Services.

During this time, department officials focused on obtaining more information about Adhost, the Seattle-based company Lookout Services was using to store I-9 data. Officials at the Department of Management and Budget thought the state's agreement with Lookout Services had been put on hold largely because it had not included enough information about Adhost and its relationship with Lookout Services.

On June 25, 2009, the department's deputy commissioner asked the department's chief information officer to "keep an eye on [the addendum to the Lookout Services agreement] to be sure that it's moving along." In response, the deputy commissioner was given assurance that the department had adequate information about security at Adhost. For example, one e-mail to the deputy commissioner dated June 25, 2009, said:

We haven't seen the [addendum], but saw some evidence that the hosting vendor [Adhost] has a secure site based on audit information sent to us. One of the issues in the previous contract was that there was no evidence that there was any commitment from hosting vendor [Adhost] with our vendor to provide a secure site. The documentation of any agreement was not part of our contract, even though we believed it existed. Another issue raised by AG [the Attorney General's Office] last year was the liability limit is an insignificant amount. However, given the small size of the contract and the urgency to move forward, I am not sure how much more we can do.

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<sup>8</sup>Minnesota Office of the Legislative Auditor, Program Evaluation Division, *E-Verify*, June 2009.

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April 19, 2010

James R. Nobles, Legislative Auditor  
Office of the Legislative Auditor  
658 Cedar Street 140  
Centennial Office Building  
St. Paul, MN 55 155-4708

Dear Mr. Nobles:

Thank you for the opportunity to respond to the E-Verify Special Investigation Report.

We concur that the Office of Enterprise Technology should take a leadership role in the assessment of managed service provider security controls. As this report clearly illustrates, even agencies with large information technology departments and experienced security professionals have difficulty understanding and assessing the pertinent security risks.

Our new Enterprise Security Program has provided agencies with industry best practice documents to help them understand and assess managed service provider risks. However, it is important to go one step further and develop formal standards that all agencies must follow. Entering into agreements with managed service providers without first doing a rigorous information security control validation can no longer be an acceptable business practice.

When we started the Enterprise Security Office about three years ago, we hoped that we would have sufficient resources for a team of security professionals to provide direct assistance to agencies in this area. However, due to limited resources, we were forced to make difficult decisions to focus on other more pressing issues, such as enterprise vulnerability management, security monitoring, and access controls. OET's recently submitted Comprehensive Information Security Funding Strategy discusses in greater depths the benefits and limitations of the current IT security funding. In light of the E-Verify report and the Security Funding report, OET is open to again discussing the need for more central security professionals to help agencies with third-party assessments and other security needs.

Finally, I would like to thank the talented members of the audit team who conducted this difficult assignment. Their efforts and recommendations will make the Office of Enterprise Technology a more effective agency.

Sincerely,

A handwritten signature in black ink, appearing to read 'Gopal Khanna', is located below the 'Sincerely,' text.

Gopal Khanna  
State Chief Information Officer