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IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM
March 15, 2018



IPERS



- Largest retirement system in Iowa
- \$32 billion trust fund
- 355,000 total members
- 117,000 retirees



- Over 95 percent use direct deposit
- Annual payroll is \$2 billion

IPERS



- Our pension system software features an online portal called My Account
- My Account allows members to make updates to contact information, direct deposit information and view other information

Account Takeover vs. Data Breach

By definition, IPERS was not "hacked"

 Criminals possessed Social Security numbers, date of birth records, etc.

 This allowed them to establish an online account via the My Account portal

 Once established, email, street address, bank information was changed

What's the Difference?



IPERS' cyber attack is *not* considered a data breach.

- Personally identifiable information (PII) was not obtained from IPERS
- Criminals stole PII from outside source
 - Such as Equifax
- Stolen information used to take over accounts
- Considered an "account takeover"

Situation Unfolds



Morning of October 31, 2017

- IPERS receives a phone call from a member reporting that his monthly check was not deposited
- System shows member changed financial institutions two weeks earlier on October 18
- Member denies that he made the change

Immediate Investigation



System check reveals that up to 115 accounts had changes to direct deposit information

- Later confirmed that 103 accounts were hijacked
- The fraudsters changed the contact information after establishing the accounts to prevent the members from receiving communications about changes from IPERS

Background Information



The criminals were able to change the member's:

- Email address
- Phone number
- Street address
- Bank account



Direct Deposit Re-directed



The bank account information for direct deposit changed, redirecting the funds

- New bank accounts were then accessible only to the criminals
 - Each fraudulent bank account number was unique
- Funds were drained immediately after the benefit payment was deposit

Authorities Contacted



Immediately, IPERS notified:

- FBI
- Iowa Dept. of Criminal Investigation
- OCIO
- Attorney General



Members Contacted



Affected members

- Contacted by phone within 8 hours
- Within 24 hours, accounts were restored and payments in process
- Encouraged to monitor all accounts

Involved banks and credit unions

IPERS has recovered some of the stolen funds

Getting the Word Out



IPERS got out in front of the story:

- Alert posted on website and social media
- CEO interviewed with local news station
- Talking points published by various media
- Updates provided on our website



Communication Challenges

- Educating the public on "account takeover" vs. data breach
- Helping members understand how to protect their IPERS account
- Owning the problem; not passing the buck



Talking Points Published



- Today IPERS learned that some retiree accounts were compromised on October 18 through the online member selfservice.
- Hackers had your social security number and your birth date and were able to change your direct deposit account information, redirecting IPERS to deposit the monthly benefit payments to a different financial institution.
- Right now, IPERS is working to reverse these deposits and get the payments to their rightful owners.
- The Department of Criminal Investigation has been notified and IPERS intends to pursue full prosecution against the criminals.

Subsequent Steps



 Online account access was removed until the scope of the incident was determined.

2. Removed the ability to change direct deposit information through online access.



Option to use Social Security number for online access was removed.

Subsequent Steps, continued

4. IPERS improved its internal review of activity on the online access and monitors all returned emails.

 IPERS now requires notifications of address changes to be sent to member's new address and old address.



Going Forward



- Two-factor authentication
 - To launch with pension system upgrade by the end of 2018
- Enhanced authentication step
 - Currently evaluating for those actions with the greatest risk for fraud



My Account Campaign



Current messaging to members:

 Avoid account takeover by establishing access to My Account

In the coming months:

- Targeted mail campaign to members
 - IPERS to provide new credentials
 - Opt out is available
- New members will be directed to name a beneficiary using My Account

Other Considerations



- Transparency in government is important, but it cannot come at the expense of compromising citizens' personally identifiable information.
- State government websites publish names, addresses, salaries, taxes, etc. that can be downloaded and cross-referenced with data stolen from other security breaches.
- Steps should be taken to eliminate this exposure.

Contact Us



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