vade

# Anti-Spear Phishing Solution

## AI-based spear phishing protection against business email compromise

**Businesses lost $26 billion to business email compromise from June 2016 to July 2019, with a 100 percent increase in global reported losses from May 2018 to July 2019.**

Source: FBI IC3 I-091019-PSA

**WHY** – The absence of URLs, attachments, and images makes spear phishing emails extremely difficult to detect.

**SOLUTION** – Vade's patented anti-spear phishing technology uses machine learning, including Natural Language Processing and Anomaly Detection, to identify the elusive signs and abusive patterns of spear phishing that evade traditional email filters.

## Spear phishing protection against highly targeted email attacks

Leveraging threat intelligence from more than 1 billion protected mailboxes, Vade's machine learning models are consistently tuned to detect the latest spear phishing threats. As new attacks are identified and examined, the AI models are revised and the engine updated.

**Behavioral Analysis** – Analyzes the context and content of emails, recognizing patterns of abuse common to spear phishing emails, such as requests for financial transactions.

**Anomaly Detection** – Builds an anonymous profile to establish normal communication patterns among employees. It can identify anomalies in an organization's email traffic and recognize advanced spoofing techniques, such as cousin domains and display name spoofing.

**Natural Language Processing*** – Support Vector Machine and Deep Neural Network classifiers identify subtle grammatical and stylistic choices, such as flag words and phrases, as well as the sense of urgency found in most spear phishing emails and subject lines.

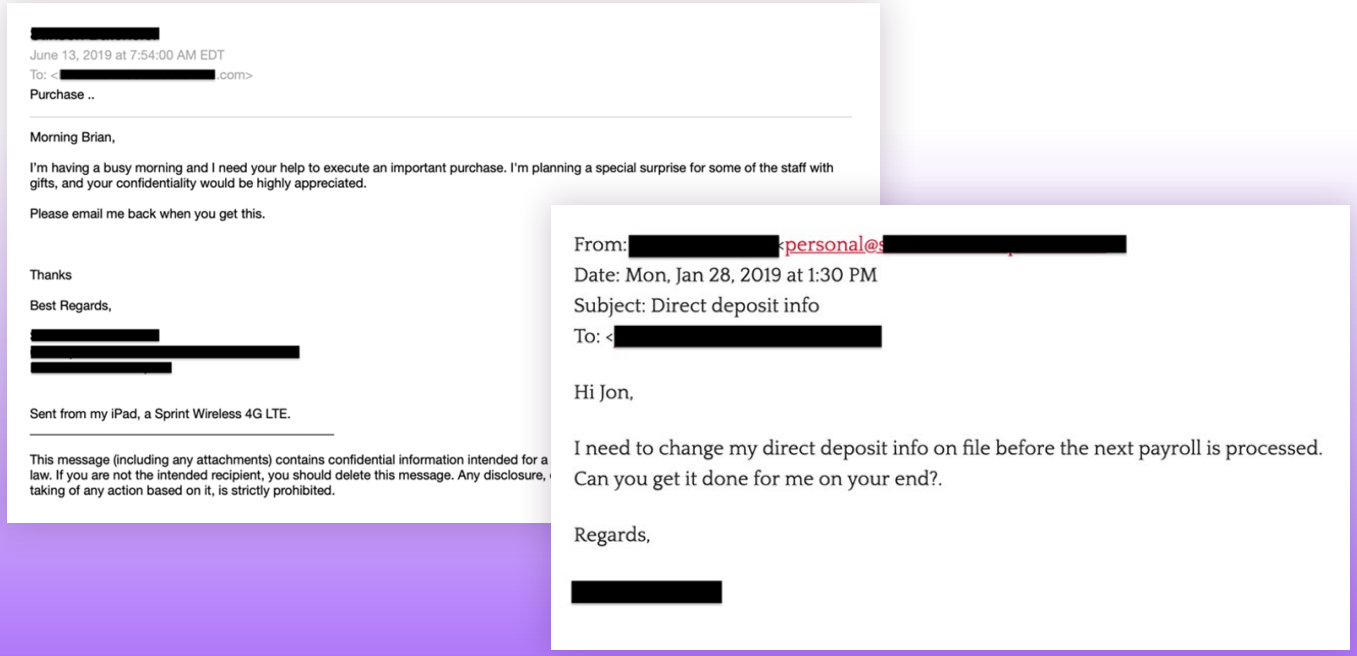
**Spear Phishing Warning Banner** – If anomalies or suspicious activities are discovered, a fully customizable warning banner is displayed. This alerts the user to the potential danger but does not block the email, preventing disruption to email flow.

**Auto and One-Click Remediation*** – Automatically removes email threats from user inboxes post-delivery. Admins can also remediate threats post-delivery with one click.

*Available in Vade For M365

## Protect users from the most costly forms of business email compromise

- **Wire Transfer Requests** – Typically impersonating top executives, such as CFOs, this spear phishing variation is the most costly. Cybercriminals place users under extreme pressure, warning that time is running out and tricking recipients into transferring large sums of money.
- **Gift Card Scams** – Less costly but easier to conceal due to incremental losses, gift card scams trick users into purchasing multiple cards, typically in $250-$500 denominations.
- **Direct Deposit Payroll Attacks** – The direct deposit spear phishing attack impersonates an internal employee and tricks a human resources employee into changing the employee's bank account and routing number for their payroll direct deposits.



[redacted]
June 13, 2019 at 7:54:00 AM EDT
To: < [redacted] com>
Purchase ..

Morning Brian,

I'm having a busy morning and I need your help to execute an important purchase. I'm planning a special surprise for some of the staff with gifts, and your confidentiality would be highly appreciated.

Please email me back when you get this.

Thanks

Best Regards,

[redacted]

Sent from my iPad, a Sprint Wireless 4G LTE.

This message (including any attachments) contains confidential information intended for a law. If you are not the intended recipient, you should delete this message. Any disclosure, taking of any action based on it, is strictly prohibited.

From: [redacted] <personal@[redacted]
Date: Mon, Jan 28, 2019 at 1:30 PM
Subject: Direct deposit info
To: < [redacted]

Hi Jon,

I need to change my direct deposit info on file before the next payroll is processed. Can you get it done for me on your end?.

Regards,

[redacted]

Vade's patented anti-spear phishing technologies are embedded in its:

- **Native, API-based product for Microsoft 365**
- **Cloud-based product for Exchange, Google Workspace etc.**
- **Gateway solution**

**About Vade**
- 1 billion mailboxes protected
- 100 billion emails analyzed / day
- 1,400+ partners
- 95% renewal rate
- 15 active international patents

**Learn more**
www.ictnetworksystems.ca/vadesecure

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