



Treasury & Fraud Control:

Crime Does Pay

GFOASC Presentation – October 4, 2017



Agenda



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Craig Jeffery formed Strategic Treasurer LLC in 2004 to provide corporate, educational, and government entities direct access to comprehensive and current assistance with their treasury and financial process needs.

His 20+ years of financial and treasury experience as a practitioner and as a consultant have uniquely qualified him to help organizations craft realistic goals and achieve significant benefits quickly.

Strategic Treasurer is a consulting firm advising on treasury, financial risk and risk technology issues.

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CONTEXT: Crime Does Pay

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AREAS OF EXPOSURE

3

LAYERS OF SECURITY: Examples

- Account Access
- System Access

4

TREASURY SECURITY

FRAMEWORK

- Four Pillars

5

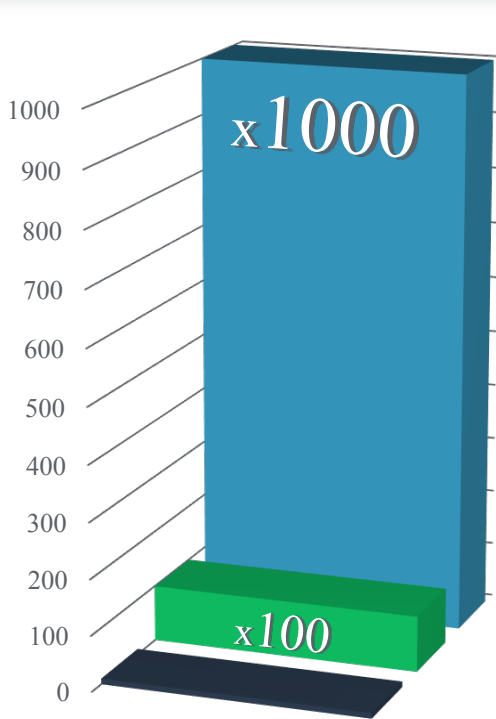
ACTION ITEMS

6

QUESTION & ANSWER

*CRIME
DOES PAY!*

System Level Fraud



SYSTEM FRAUD

Typical Payout Range:

\$1M-10M+

WIRE (BEC) FRAUD

Typical Payout Range:

\$130K+

CHECK FRAUD

Typical Payout Range:

\$1K-2K

System-level fraud, or the complete takeover of an organization's internal systems, have the potential to pay out \$1,000,000-\$10,000,000 depending on the size of the organization being targeted.

The above values are taken from calculations off of FBI, Banking Data and Strategic Treasurer estimates.

The risk/reward calculus for criminals has changed as the potential payouts are larger than ever. While many corporates are on the watch for check fraud, the larger targets remain unplanned for and vulnerable to attack.



Case Study: Bangladesh

Central Bank of Bangladesh

Situation

- \$951mm Messages Sent
- \$101mm Wired
- \$850mm Stopped by AML
- \$20mm Recovered
- \$81mm Net Loss with some Residual Recovery
- No Further Recovery Expected

Protection Gaps

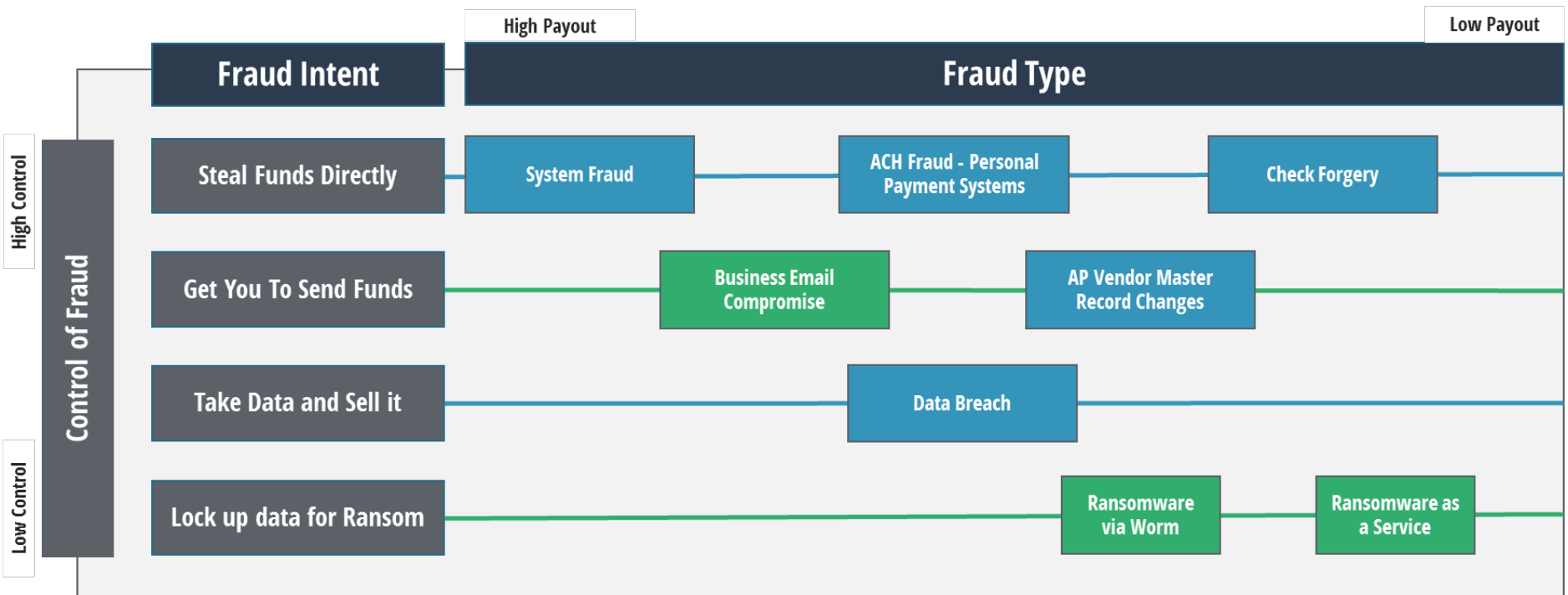
- Perimeter
 - Firewall
 - Routers
- Interior
 - IDs
 - Passwords
 - Keys
- System
 - Left open (test mode)
- Other

Results

- \$81mm Stolen
- “Early Retirement”
- Massive Continued Negative Press



Criminal Hierarchy: Control and Value



Current vs. Ideal Business Environment

The Current Business Environment



Fraudulent activity is on the rise



The security measures used by most organizations are insufficient



Organizations make easy targets for criminals

The Ideal Business Environment



The security measures in place by firms would be robust



It would be easier to identify when and where fraudulent activity is occurring



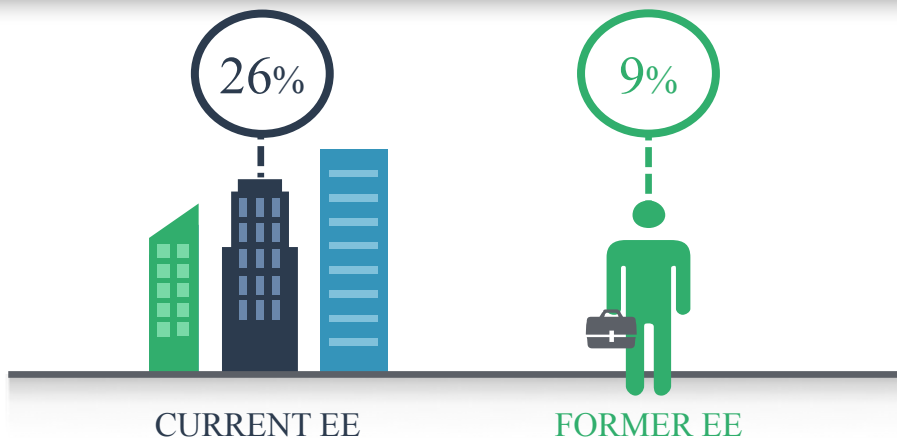
Fraudulent activity would result in fewer successes and smaller payouts.

In today's world, crime does pay. Given the current business environment, it is easy for criminals to get past organizational security measures and walk away with high payouts.

In order to rectify this, the calculus for criminals must be changed. Firms must take on a more muscular security approach so that fraud becomes more difficult to pull off and is less rewarding for those that are successful.

Significant Rise in External Fraud

From Whom Did You Experience Fraud? (2016)



From Whom Did You Experience Fraud? (2017)

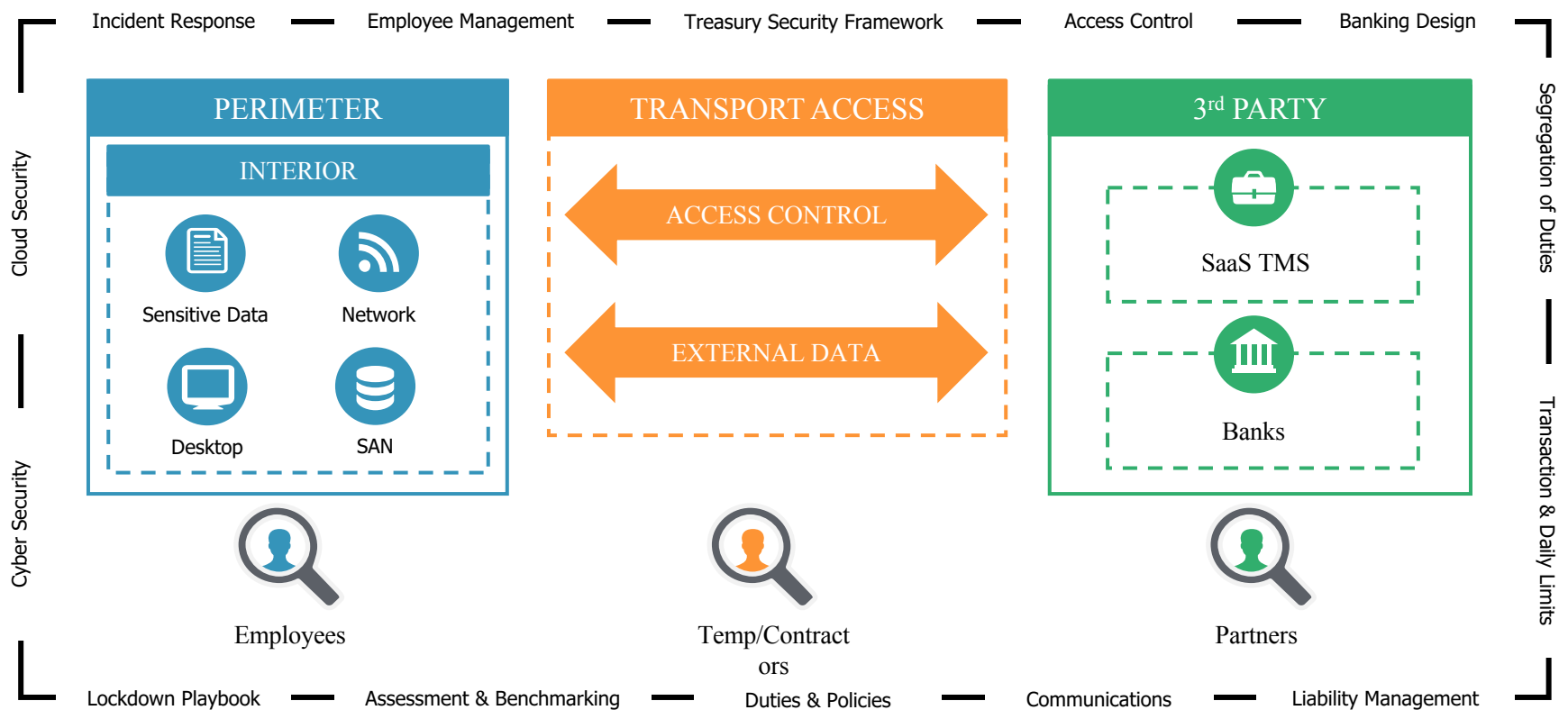


In 2016, over 1/3 of respondents identified their corporation's employee roster (current + former) as a source of fraud for their firm. 59% of firms also claimed non-EE as a source and 11% claimed unknown and/or other sources as well.

2017 data saw a dramatic rise in external fraud levels, as well as a large decrease in internal fraud experience. 81% of firms indicated that external non-employees were behind the attempts made against them, while current/former employees were only responsible for 17% of attempts.

Survey data from Strategic Treasurer's Annual **Treasury Fraud & Control Survey** (2016, 2017). Underwritten by Bottomline Technology

TREASURY SECURITY: AREAS OF EXPOSURE





Layers of Security: Account Access & Control

- Bank Account Structural Design
- BAM System & Centralized Process
- SSO/SAML 2.0 for users/ signers who leave
- Bank Account Structural Design
- Account level controls
- Transaction level controls
- Limits
- Dual Authorization
- Out of Band (OOB) confirmation
- Resources
- EE Background Training

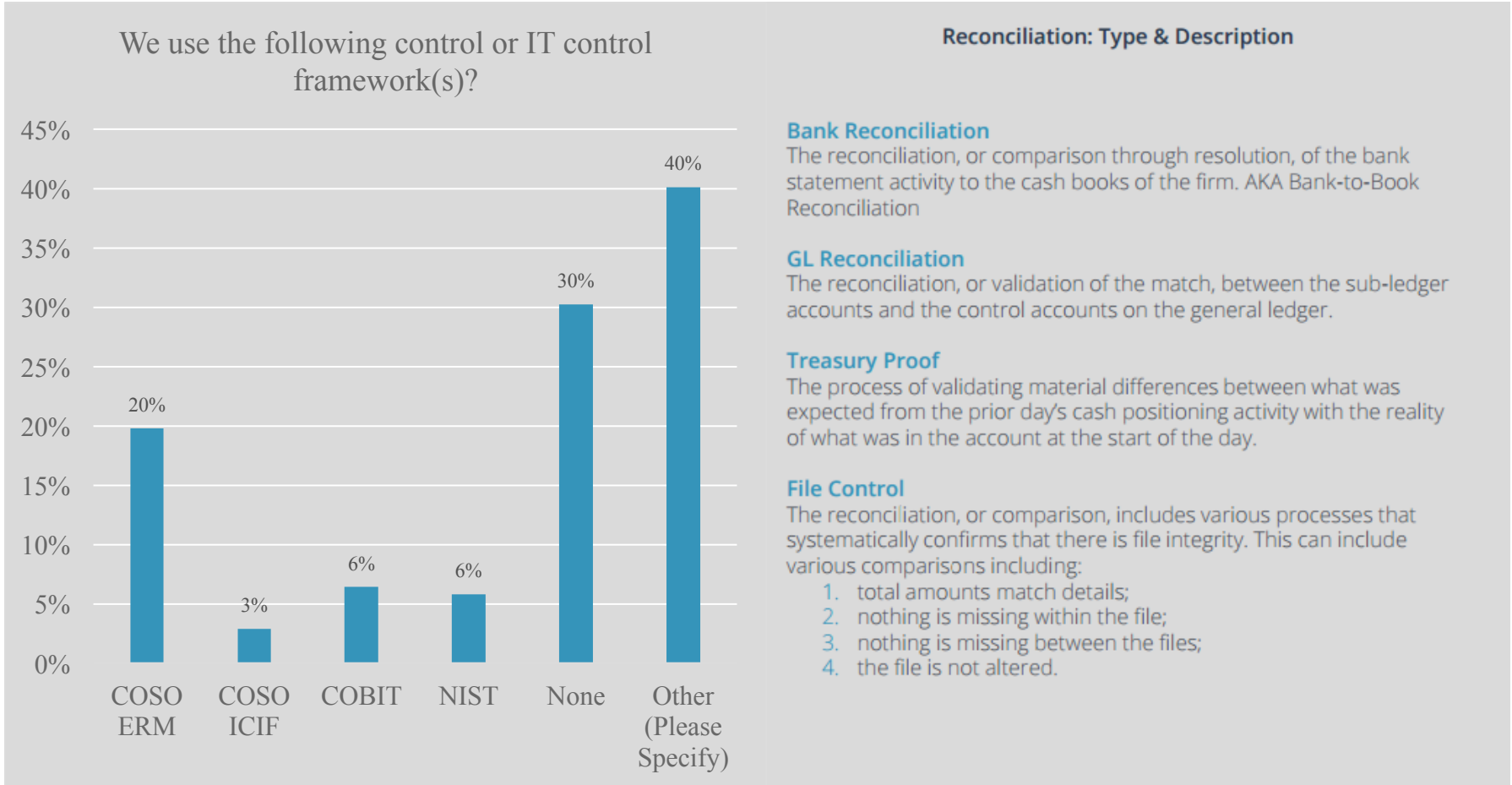


Layers of Security: System Access & Control

- Protect Against:
 - Key loggers | Spyware | Trojans
- Firewall/AV/Access Reporting & Monitoring
- System change management / Activity Monitoring
- Restricted IP Address
- Virtual Private Network (VPN)
- Password Complexity
- Password Change Frequency
- Keyboard / Screen Entry
- Validation (Token, etc.)
- Free Wifi
- Training



Control Framework, Type of Reconciliation



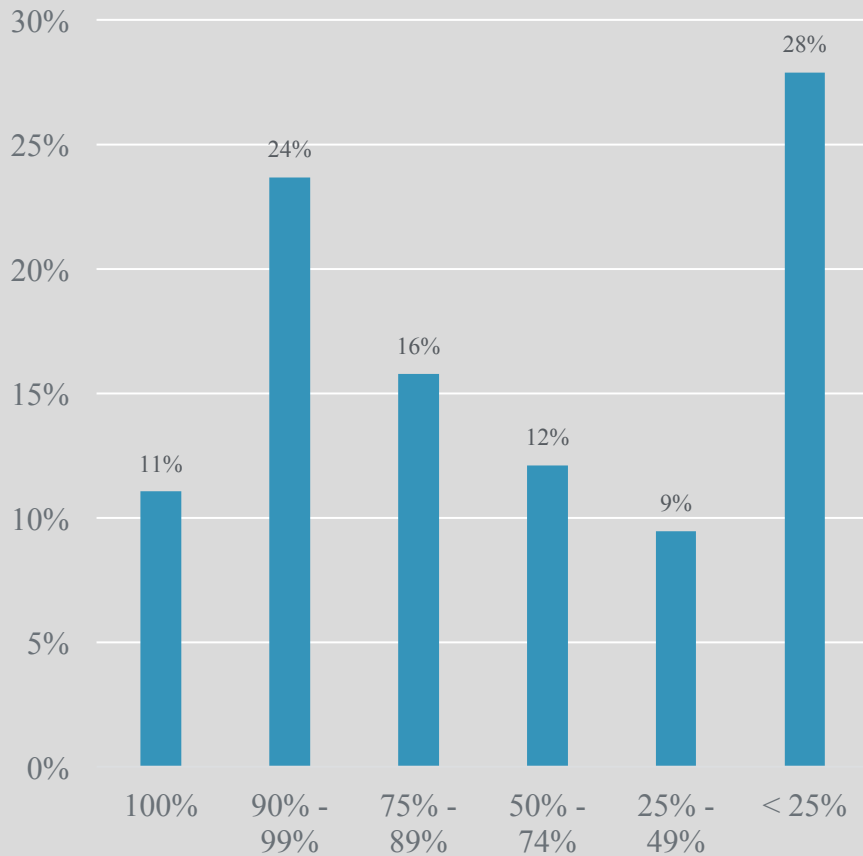
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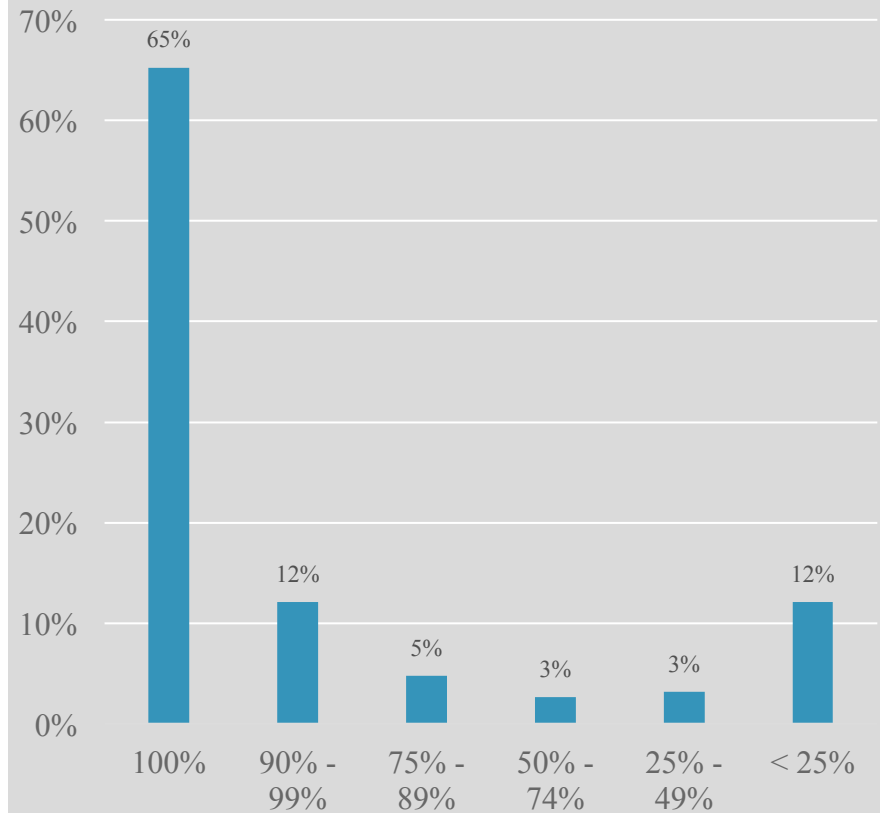
Reconciliation



What percentage of your bank accounts are reconciled on a DAILY basis?



What percentage of your bank accounts are reconciled on a MONTHLY or more frequent basis?



Survey data from Strategic Treasurer's Annual Treasury Fraud & Control Survey (2016, 2017). Underwritten by Bottomline Technology



1. ASSESS & ARCHITECT

- Greater Awareness

2. PREPARE & PREVENT

- Stronger Defense Posture

3. MANAGE & MAINTAIN

- Ongoing Training
- Testing

4. RESPOND & RECOVER

- Reporting
- Response (Fast, Appropriate, Lockdown)
- Rework (Restore to New Operating Model)

FOUR
of TREASURY
SECURITY PILLARS

Questions You Might Want Answered

- What areas are weak, acceptable, strong?
- What layers exist? Are needed?
- How well do we know what other internally are doing?
- How well do we know what other are externally doing?



Action Items



1. **Create:** Treasury Security Framework



2. **Perform:** Fraud/Security Assessments, Review Layers



3. **Compare:** Benchmark Key Areas



4. **Communicate:** Treasury Security Framework



5. **Calibrate:** the proper level of response



6. **Train:** Find opportunities to have regular training.

Additional Resources



Download your FREE COPY of the Infographic and Results Report from the 2017 Global Treasury Fraud & Controls Survey conducted by Strategic Treasurer & underwritten by Bottomline Technologies at the address below.

[StrategicTreasurer.com/
2017-Treasury-Fraud-Controls](http://StrategicTreasurer.com/2017-Treasury-Fraud-Controls)

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Strategic Treasurer was founded in 2004 by Craig Jeffery, a financial expert and trusted advisor to executive treasury teams since the early 1980's. Partners and associates of Strategic Treasurer span the US, the UK, and continental Europe.

This team of experienced treasury specialists are widely recognized and respected leaders in treasury and risk management technology consulting. Known for their expertise in treasury technology, risk management, and working capital as well as other cash management and banking issues, they efficiently identify issues, creatively explore ideas and options, and provide effective solutions and implementations for their valued clients.



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