



Cyber Incidents a Review Real World and Theory

November 19, 2021

Telecom Risk Profile

- * 22% of companies do not do penetration testing.
- * 28% of companies state cyber security is not addressed in their contracts.
- * 34% of companies do not monitor endpoints of suspicious activity.
- * 22% of companies do no security training.

The logo for Telcom Insurance Group, featuring the word "TELCOM" in a bold, sans-serif font with a stylized globe icon integrated into the letter "O". Below "TELCOM" is the text "INSURANCE GROUP" in a smaller, all-caps font, flanked by two horizontal lines.

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State of Cyber Insurance

- * Loss starting to pile up.
- * Rate going up.
- * No coverage limitations yet but retention changes.
- * MFA required by most insurers
- * More use of tech scans to underwrite.

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Management Includes

- Assessment
- Quantifying of Issues
- Management
- Incident Response

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Understanding Possible Outcomes

A few important ones...

You only lose what can afford to lose

You backfill what you can't afford to lose

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NIST

The Standard



*Image courtesy of the National Institute of Standards and Technology
Read More about Cybersecurity Framework
at www.nist.gov/*

User Names and Passwords

How Single Factor Authentication Works



User



Computer

Halt! Who goes there?

It's me... Jane.

How can I be sure it's you, Jane?

Here's my password...

Ok. You can use the computer system.



User Names and Passwords

How Multi-Factor Authentication Works



User



Halt! Who goes there?

It's me... Jane.

How can I be sure it's you, Jane?

Here's my password...

What else can you offer as proof

Here's additional proof

Ok. You can use the computer system.

Computer



Passwords Aren't
Bad But...

We Need More
Than Just
Passwords

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Passwords can be:

Guessed

Brute Forced

Monitored

Stolen

Bought

...for very low effort and expense.

What Should We Do

Why The Insurance Industry is Focused on MFA



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One simple action you can take to prevent 99.9 percent of attacks on your accounts

August 20, 2019 publication date

<https://www.microsoft.com/security/blog/2019/08/20/one-simple-action-you-can-take-to-prevent-99-9-percent-of-account-attacks/>

*By providing an extra barrier and layer of security that makes it incredibly difficult for attackers to get past, **MFA can block over 99.9 percent of account compromise attacks.** With MFA, knowing or cracking the password won't be enough to gain access.*



THE WHITE HOUSE
WASHINGTON

What We Urge You to do to Protect Against the Threat of Ransomware

June 2, 2021 distribution date

<https://www.whitehouse.gov/wp-content/uploads/2021/06/Memo-What-We-Urge-You-To-Do-To-Protect-Against-The-Threat-of-Ransomware.pdf>

*We're leading by example because **these five best practices are high impact: multifactor authentication (because passwords alone are routinely compromised), endpoint detection & response (to hunt for malicious activity on a network and block it)...** These practices will significantly reduce the risk of a successful cyberattack.*

Additional Factors

General Types of Multi-Factor Authentication



Software

Something You Have... Kinda



Microsoft Authenticator



Google Authenticator

Use 3912038 as Microsoft account security code

Your security code is 658620. Happy Dropboxing!

PayPal: Your security code is: 476080. Your code expires in 10 minutes. Please don't reply.

832845 is your Twitter login code. Don't reply to this message with your code.

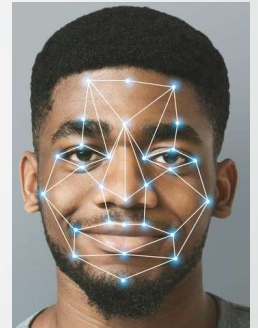
Hardware

Something You Have



Biometric

Something You Are



Additional Factors

Buying
Consideration
Multi-Factor
Authentication

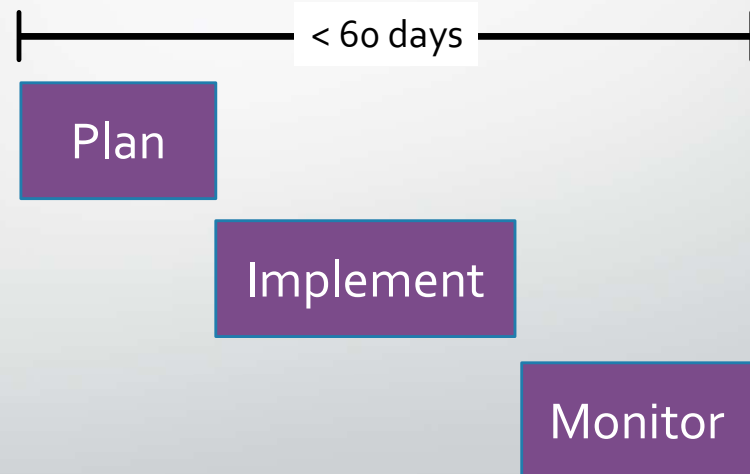


Software <i>Something You Have... Kinda</i>	Hardware <i>Something You Have</i>	Biometric <i>Something You Are</i>
Good	Better	Best
\$	\$\$	\$\$\$
Available Well-Used	Available Used	Available Hit or Miss

MFA Implementation



- or -





Solution CyberESI MFA Implementation Economical and Done in Less Than 60 Days

www.cyberesi.com

User Count	Cloud E-Mail MFA Price	Discount for Telcom Insurance Group Customers	Other MFA Price
5-24	\$260/user	\$195/user	<i>custom</i>
25-99	\$130/user	\$98/user	<i>custom</i>
100+	\$99/user	\$74/user	<i>custom</i>

Working with client IT personnel to implement MFA for either Google or Office 365 e-mail by:

- MFA hard token registration for up to two cloud e-mail administrators (includes expense and shipping of hard tokens)
- MFA authenticator registration for all end users
- Enabling MFA for cloud e-mail administrators
- End user MFA implementation planning
- End user engagement including staged communications (to be sent by client personnel)
- Help desk hours for end user support
- One-on-one end user follow-up as needed
- Enabling the hosted e-mail for MFA
- Compliance monitoring for one week after the MFA migration to ensure MFA usage

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What is the current Scheme used by the Bad Guys?

Bad Actors Gains Access and Reside in the telecom company network undetected

- Credentials
- Backup Data
- Ransom- denial of access
- Ransom- have your data



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Incident Response

- * Do you have a plan and was there training?
- * Do you have the right process, procedure and forensics should something happen?
- * Can you quickly respond to an incident?

مجلس
التأمين
البحريني

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