



Opkalla hosted a webinar for CPAs on keeping their firms cyber-secure. We interviewed Elliott Davis CIO, Jeff French, to hear his perspective on the current cybersecurity landscape, including how threats have changed over the years and the cybersecurity concerns that should be a top priority for CPAs to address. Read on to explore the key takeaways from the discussion.

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## On the current security and threat landscape and reason behind growth of attacks, both in size and quantity:

- There are many reasons for this growth:
  - Attacks are lucrative
    - Companies hit by ransomware attacks are increasingly willing to pay because doing so is cheaper than remediation.
  - Driving forces beyond money
    - Ego: “Let’s see if we can break into XYZ Company’s network, just to prove we can.”
    - Political: State sponsored attacks are extremely sophisticated. As we have seen in the media recently there have been some shocking revelations.
  - Barrier to entry is low
    - Ex. Tool kits to run an entire ransomware campaign can be purchased cheaply on the dark web. The tool kits are extremely easy to use and don't require a ton of knowledge.
    - Some countries are investing heavily in training their citizens to have a superb technical skillset but are not offering those individuals well-paying jobs to use those skills. Instead, the citizens use their skills as bad actors and commit cybercrimes for better pay and with less effort.
    - Vulnerabilities stemming from the human factor:
      - As we all know, humans are not perfect. Attackers know that too and prey on that fact. Very often the most compromises stem from not ultra-sophisticated tools, but people giving up their credentials willingly via an email with a link to a site that looks legitimate.

## On the negative consequences of a data breach, including the less obvious ones:

- This is a big one. To put it bluntly - when faced with a breach or an attack, the literal survival of the company is on the line, depending on the severity or magnitude.
- In terms of the negative consequences, there are many:
  - Immediate and tangible effects of a breach:
    - Loss of revenue
    - Systems being shut down
    - Employees not being able to work/produce, etc.
  - The more intangible consequences are just as great:
    - The time it takes for remediation which encompasses:
      - Scoping the breach
      - Understanding the boundaries of the attack
        - What systems are affected?
        - What data was lost?
      - Restoring systems

- Working with insurance carriers, law enforcement, legal teams
- Notifying clients
- Loss of trust and damage to reputation with both clients and employees
  - Loss of current and prospective clients
- Potential for lawsuits
- Breach at a CPA firm is more damaging to reputation than other industries
  - The CPA title implies that person should be trusted - it hurts more when that trust is lost

#### **On the changing cybersecurity challenges at organizations like Elliott Davis (over the past 5 years):**

- For IT one of the biggest challenges is staying on top of the emerging threats.
  - The last thing you want to happen is have your leader forward you a news article about a new vulnerability that you yourself hadn't even heard about yet.
  - Staying on top of all the new technologies, prevention methods, and compliance requirements.
    - The creation of new internal tools and client facing tools, without the traditional guard rails put in place by IT, has been a huge challenge here
  - In general, it's very difficult to filter through the noise and focus on what really matters
- Increased cybersecurity threats have required new actions:
  - Heightened access security – Elliott Davis has been enabling MFA for as many services as possible over the last several years
  - More services have been moved to the cloud
    - They've sacrificed some control for convenience and cost.
    - In some cases, these services are better positioned to protect their data than Elliott Davis was due to more sophisticated infrastructure. But - as we have seen in the media (looking back to the Solar Winds attacks or Log4J vulnerabilities), they know vendors are not impervious.
- Remote work has been challenging from a security standpoint:
  - Dealing with home networks and IOT devices, which are sometimes the absolute worst in terms of vulnerabilities
  - People trying to find their own solutions to new problems
  - People who still feel they need to print to do their job, creating a hard copy in an environment without secure shared facilities

#### **On the most surprising challenges:**

- The increasing amount of time IT teams must devote to cybersecurity
  - In the past security was usually somewhat of an afterthought - the focus was always on growth, capacity, speed, etc.
  - The increase in cyber threats and focus on security has created a \$170 billion dollar a year industry. That number is up 30% in just 4 years. Incredible.
- Risks associated with the rise of the citizen developer
  - Tools are now so accessible to anyone with a credit card – they can go out and spin up enterprise class services without any guidance required from IT or some form of traditional governance
  - The barrier to entry is astoundingly low

#### **On the cybersecurity concerns that should be a top priority for CPAs to address:**

- From a compliance perspective, the ever-evolving regulatory landscape related to data handling
  - This can vary widely from state to state

- Very difficult to stay current
- The human element
  - Humans are typically the first line of defense
  - Implementing an annual Security Awareness training is critical
    - Need to help people develop healthy skepticism regarding digital communication
- Rising of laptop theft
  - Protecting laptops will ensure data stored on them is not compromised
  - Having good backups is key too
- You can target these concerns by implementing a variety of systems and tools:
  - Email encryption
  - Drive encryption
  - A retention policy to delete old data
  - Segmentation to make sure employees only have access to the data they need access to
  - Regular Vulnerability assessments/penetration testing
  - Cyber audits of key systems
  - A response plan
    - Who is going to be your first call?
      - Legal support?
      - Cyber Insurance carrier?

**On wariness some people have for creating a strong cybersecurity strategy because of (1) assumptions that nothing will be effective enough to keep up with bad actors, (2) it being too expensive or too complicated, etc. – and how to address these concerns:**

- People with these concerns are not alone
  - This is not something **anyone** can do alone.
  - It is not purely a function of IT - it must be a team effort across the organization
- To combat these concerns:
  - Attack the low hanging fruit first
  - Hire a cyber security consulting firm
  - Perform an audit on your cyber footprint
  - Make recommendations based on impact or severity

**On maintaining strong cybersecurity at a CPA firm where there is not a designated IT department (and there are many):**

- Get good advice from experts
- Designate someone to oversee the security program and solution providers (can hire a fractional CISO, for example)
- Engage with security providers
- Ensure your contracts do not cause you to over-assume risk

**On deciding when to build a security defense in-house vs. outsourcing to a cybersecurity partner:**

- More and more [Elliott Davis is] moving towards a model of outsourcing to vendors who can perform round the clock monitoring of security platforms
- Occasionally certain platforms make more sense for them to manage in-house
  - This includes configuring and monitoring on their own.

## On steps CPAs can and should take right now to protect their firms:

- Look at what is available to you through your current applications and security suite
  - See if apps offer some sort of MFA or additional security measures for login
  - Make sure you are taking advantage of all security features offered through your productivity suite
    - (i.e., Microsoft, G Suite, etc.)
  - See if your current security suite offers products that aren't being leveraged.
    - E.g., web filtering
- Ask your IT solutions provider what they recommend
  - If they can't help, ask them to make a recommendation for a security solutions provider
  - It never hurts to have a fresh set of eyes on your environment to see what someone else might have missed