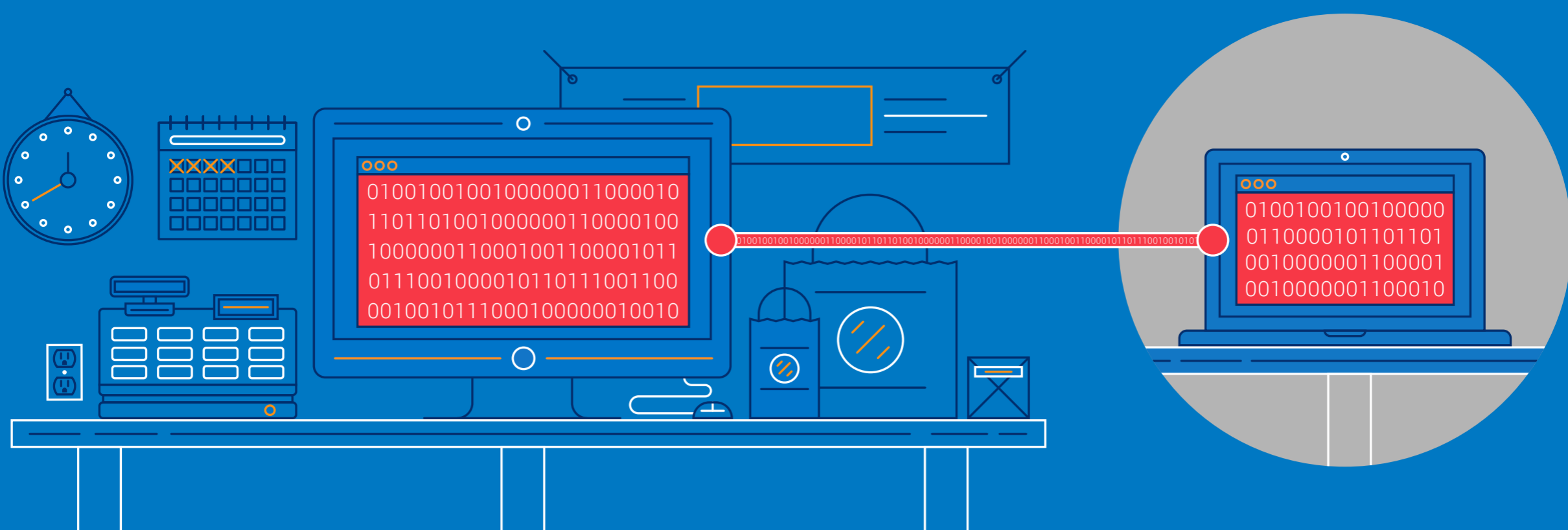


HOW HIDDEN ENCRYPTED THREATS IMPACT RETAIL ORGANIZATIONS TODAY



Retail organizations are being increasingly targeted by cyber criminals seeking to steal customers' personally identifiable information (PII) and other confidential data. As the Internet moves toward 100 percent encryption to protect sensitive data, new threat vectors continue to emerge as attackers hide their activities behind SSL with increasing frequency. What dangers are pushing past your security infrastructure?

Discover the challenges you and your peers now face – including threats hiding in SSL traffic.

ARE RETAIL ORGANIZATIONS EXPOSED TO CYBER THREATS?



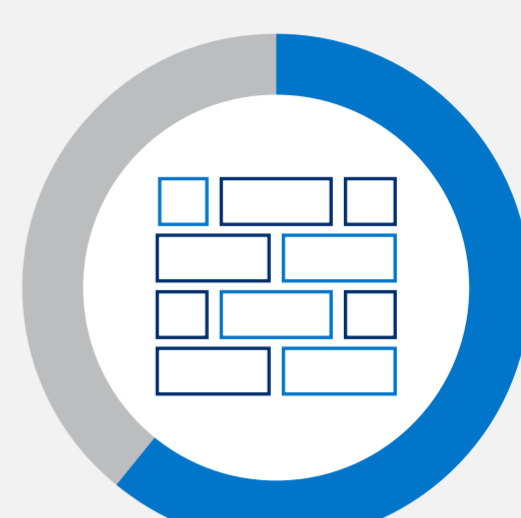
56%

of retail organizations say that **less than half** of their Web traffic is inspected for attacks



77%

of retail organizations say they have definitely or likely been victim to a **cyber attack** or malicious insider activity in the past year



Nearly **66%**

of retail organizations agree or strongly agree that their infrastructure's inability to inspect encrypted traffic is a **barrier to compliance** now and in the future

Of those,

59%

either **didn't attempt encryption** to evade the attack—or aren't even sure if they did

ENCRYPTION IS INCREASING, BUT RETAIL ORGANIZATIONS NEED DECRYPTION



Nearly **50%**

of retail organizations think network attackers will **increase encryption use** in the next year



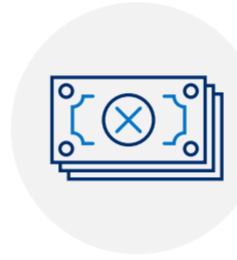
Nearly **66%**

of retail organizations are concerned or very concerned that encrypted communications will leave their network **vulnerable to hidden threats** in SSL traffic



57%

of retail organizations don't currently decrypt Web traffic to **detect intrusions**



79%

of retail organizations agree or strongly agree that SSL traffic that is malicious could cause a **costly data breach**

Only

48%

think they'll implement this in the next year

But only

18%

strongly agree that their company is equipped to detect malicious SSL traffic



Despite all this,

28%

of retail organizations say SSL is essential to their company's overall **security infrastructure**

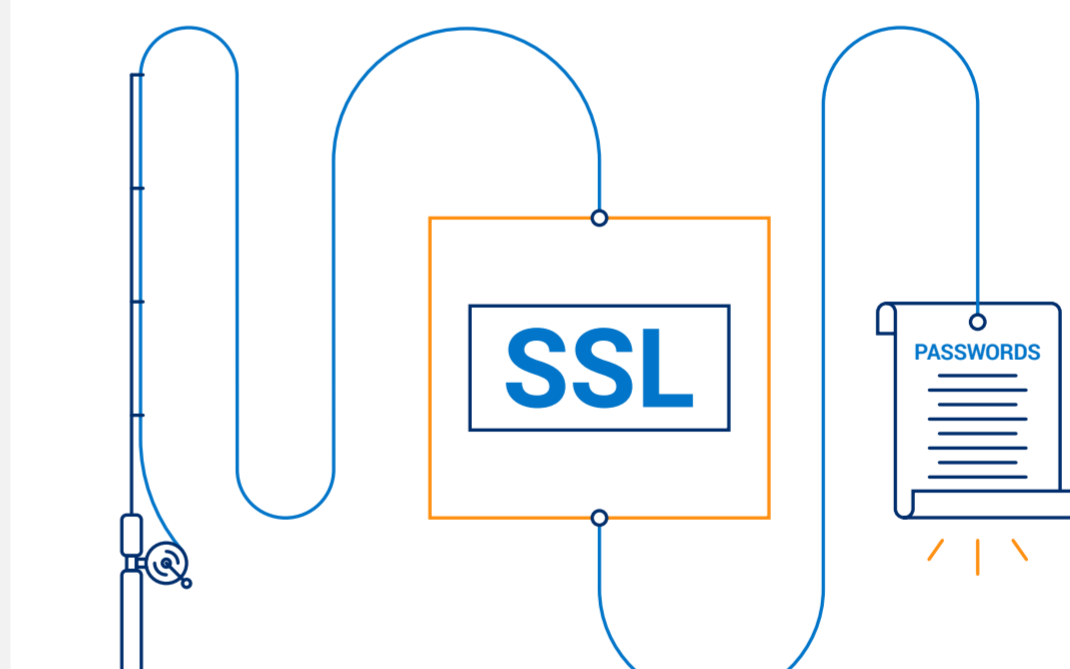
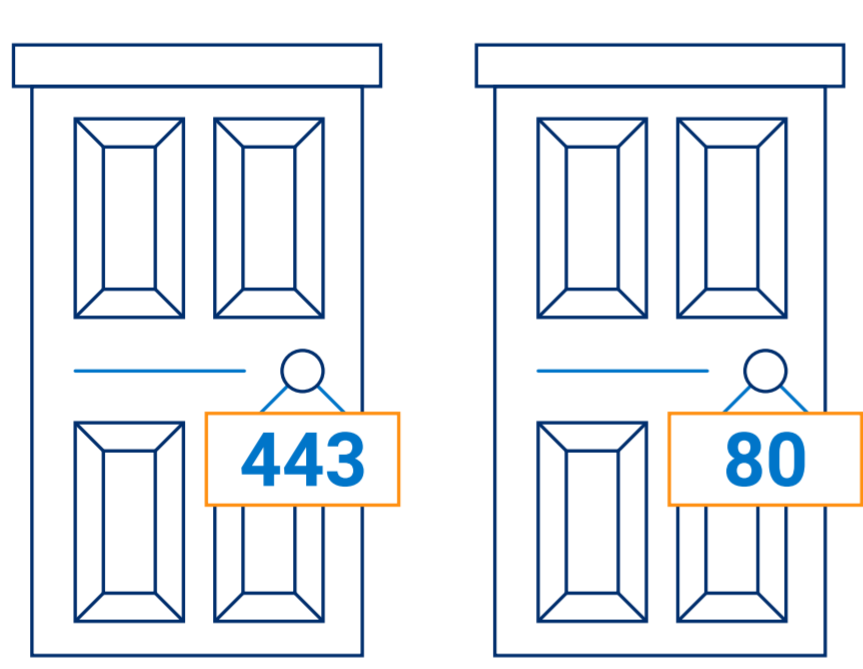
Retail is more likely than any other vertical to look at adopting IPS in the next 12 months

71% say they will

RETAIL ORGANIZATIONS EXPECT ENCRYPTED THREATS BUT THEY AREN'T PREPARED*

Attackers use encryption to hide data exfiltration over standard ports, like 443 or 80

Attackers use SSL to make phishing sites look more legitimate and hide malware from IPS



66%

say this is extremely likely to happen

56%

say this is extremely likely to happen

12%

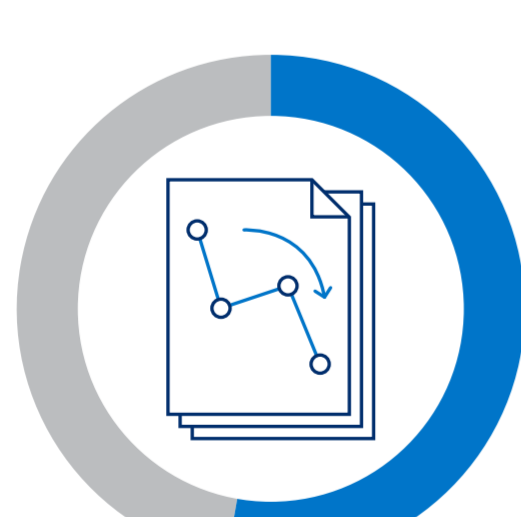
say they are properly equipped to resolve it

5%

say they are properly equipped to resolve it

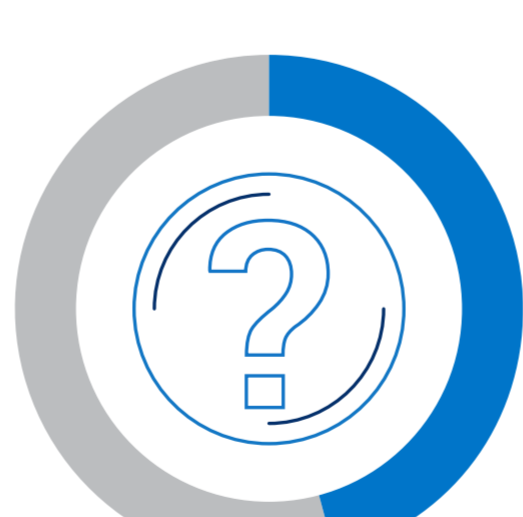
*In this case, "extremely likely" and "extremely equipped" are each defined by respondent ratings of 9-10 on a scale of up to 10.

TOP REASONS SSL HASN'T BEEN BROADLY IMPLEMENTED BY RETAIL ORGANIZATIONS



53%

Lack of performance



46%

Lack of resources



36%

Lack of enabling security tools

SSL DECRYPTION TOOLS: MUST-HAVES



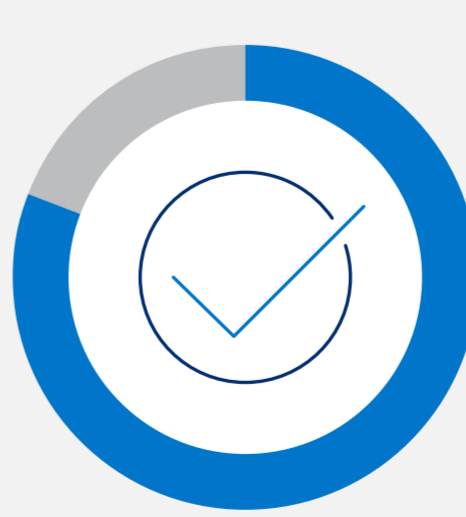
90%

of retail organizations agree that **scaling** to meet current and future SSL performance demands is important, very important or essential



81%

of retail organizations agree that **maximizing** uptime, performance requirements and security infrastructure capacity is important, very important or essential



81%

of retail organizations agree that satisfying **compliance requirements** is important, very important or essential



53%

of retail organizations say their agency's security solutions are **collapsing** under growing SSL bandwidth demands and SSL key lengths

Learn how A10 Thunder SSLi delivers high-performance and cost-effective visibility into encrypted traffic, empowering your entire security infrastructure to defend your network against hidden threats.

Visit a10networks.com/ssli

Source: Survey on Hidden Threats in Encrypted Traffic: Industry Verticals, Presented by Dr. Larry Ponemon, Ponemon Institute, March 27, 2016.

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