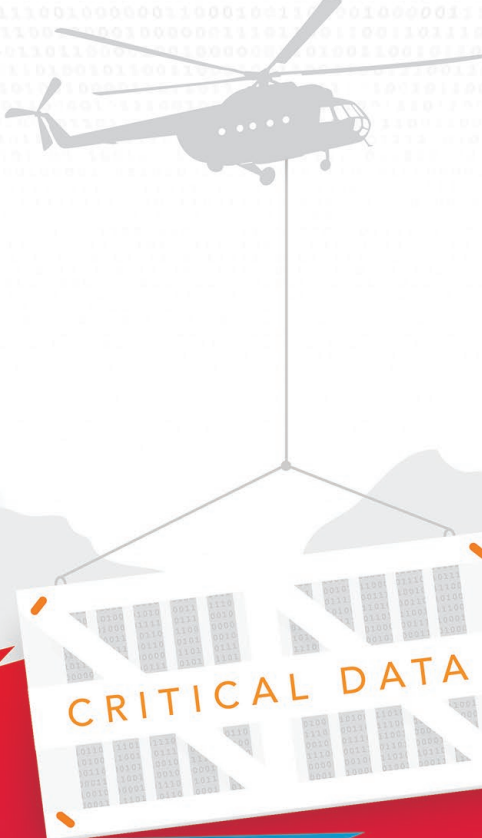


DATA SECURITY RISKS

LURK EVERYWHERE



In a world where the risks to your data lurk everywhere and the stakes to your future have never been higher, it's essential to protect the lifeblood of your business.

DATA BREACH
23% INCREASE LAST 2 YRS!
COST INCREASES

DATA SECURITY IS A GROWING CONCERN

Data drives most enterprises today, and securing that data is imperative.

CAUSES OF DATA BREACHES



47% MALICIOUS
29% system glitches, and 25% human error¹

RECORDS BREACHED

25% INCREASE²

YEAR 2014
YEAR 2013

DATA BREACH EVENTS



50% OF BUSINESSES have suffered at least one security incident within the last year³

BREACH COST

AVERAGE ORGANIZATIONAL COST



It's easier than ever to infiltrate a fiber optic cable. Hackers are virtually undetectable and their fiber tap can collect critical data for days, weeks or even months.

Neglecting the risk of fiber optic cable intrusion is a gap in your security strategy. Breach resolution and lost business costs are staggering. Is your in-flight data fully protected?



IN-FLIGHT DATA SECURITY SOLUTIONS

TRADITIONAL HIGHER LAYER VS. OPTICAL LAYER

What are companies doing to protect their data?

MORE THAN 15% OF IT SECURITY BUDGETS are allocated for encryption. A steady increase over the last 10 years.⁴

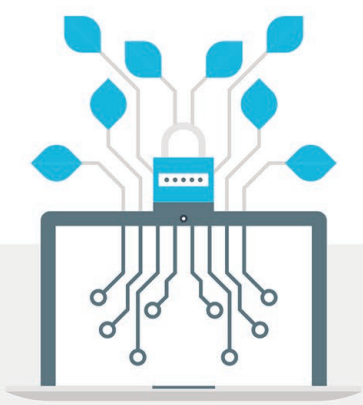


36% OF GLOBAL COMPANIES have deployed a consistent encryption strategy across their enterprise. More than twice as many as ten years ago.⁴



HIGHER LAYER ENCRYPTION

- Increased latency
- Increased CAPEX/OPEX: requires protocol-specific HW
- Inefficient use of bandwidth
- Complicated key management



OPTICAL LAYER ENCRYPTION

- Lower latency
- Lower CAPEX/OPEX: integrates directly into the network
- Protocol-agnostic for flexible services
- 100% data throughput
- Simple dedicated end-user key management

WAVELOGIC ENCRYPTION

SECURE EVERY BIT OF YOUR IN-FLIGHT DATA 24/7

ciena

Minimize your data security risks with in-flight data protection as part of your holistic security policy. Ciena's protocol-agnostic, wire-speed encryption is simple to implement, enabling a highly secure network infrastructure to safeguard all of your critical data, all the time, whether it is traveling across the street, across the city or across borders.



Always-on encryption



High capacity
10G
100G
200G



Ultra-low latency



FIPS
Third-party certified



Dedicated end-user key management

WaveLogic Encryption Solution application note

DOWNLOAD NOW

ciena : the network specialist

LEARN MORE: www.ciena.com/security

SOURCES

1. IBM and Ponemon Institute LLC. (2015, May). 2015 Cost of Data Breach Study: Global Analysis. Retrieved from IBM.
In this year's study, **350 companies representing the following 11 countries participated:** United States, United Kingdom, Germany, Australia, France, Brazil, Japan, Italy, India, the Arabian region (United Arab Emirates and Saudi Arabia) and, for the first time, Canada.
2. IBM Security Systems. (2015, March). IBM X-Force Threat Intelligence Quarterly, 1Q 2015. Retrieved from IBM.
3. Experian® Data Breach Resolution and Ponemon Institute LLC. (2014, September). Is Your Company Ready for a Big Data Breach? Retrieved from Experian.
4. Thales and Ponemon Institute LLC. (2015, April). 2015 Global Encryption & Key Management Trends Study. Retrieved from Thales.