

## Reimagining security

Eclipz technology was built for US Government (USG) applications that require strong data-in-transit encryption. The USG deploys Eclipz globally to address the vulnerabilities centric to data as it moves between endpoints over open, insecure networks. Eclipz is beyond standard VPN, TLS, and PKI in strength, deployment flexibility, and native compatibility. Eclipz secures data in transit for a wide variety of commercial and industrial applications, and extends concepts like Zero Trust Network Access (ZTNA) and software-defined perimeter (SDP).

## Eclipz is a superior and unique technology

Current methods of securing data in transit are challenging to implement and manage, do not work at scale, and do not address modern workplace challenges.

Eclipz safeguards data in transit through a unique technology solution that mitigates human error as well as malicious actions, including man-in-the-middle network attacks, replay attacks, data sniffing, DDOS, and spoofing.

Eclipz consists of two elements: a powerful platform, and an intelligent adapter. The Eclipz platform validates the intelligent agents on each endpoint, and after the initiating host endpoint creates the VPN session, the Eclipz platform exits the process, so all data transmission is from point to point without the need for a gateway.

Typical VPN and TLS solutions create the session before authenticating the endpoints, and a gateway remains in the session. In contrast, Eclipz mutually—and independently—authenticates each endpoint first, before they are aware of each other and can establish a session. Because each session uses an ephemeral certificate, the key is no longer valid on session close; a new session means Eclipz issues a new key.

- **Go to market fast**

Eclipz is easy to deploy and integrate, and implementation is non-disruptive to existing systems. Eclipz is a simple fit into current offerings and global customers.

- **Increase profits and lower costs**

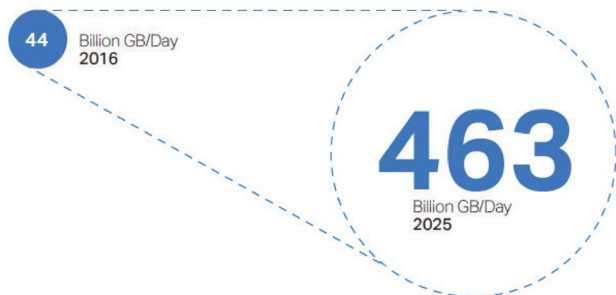
Eclipz can increase margins from existing customer spend by providing a more secure and manageable solution.

- **Expand to new market segments quickly**

Eclipz's solution can address general enterprise-wide use cases around data management, as well as vertical opportunities in financial services, healthcare, and public sectors. In addition, a variety of industrial and IoT use cases abound.

## Your data is valuable. Every single bit. Eclipz it!

Data is the fuel that drives the global digital economy in both the public and private sectors.



+IDC predicts growth to **463 billion GB** of data created per day in 2025

## Minimize attack surfaces

- Encrypts all types of data in transit at the network layer (Layer 3) of the OSI model
- Eliminates human error through automation
- Secures data traveling through private and public networks

## Enhance product values

- Provides a superior level of security and reliability
- Secures any type of endpoint, product deficiency, and future design
- Eliminates gateway and VPN expense

## Easily embed and manage

- Lightweight, invisible to users, agnostic to apps
- Integrates via REST/JSON APIs
- Automates key and session management tasks

### ZTNA compliance

- Uses strict access control policies
- Covers public and private networks
- Requires endpoint authentication

### Eclipz extends

- Issues ephemeral keys per session, per endpoint
- Encrypts all data, not just HTTP
- Requires no network microsegmentation
- Is policy-based and integrates with existing policy tools

### Standard VPN

- Provides strong encryption
- Uses secure tunnel for connectivity
- Provides remote access with anonymity

### Eclipz is better

- Authenticates before data session is established
- Encrypts from point to point with no gateway
- Eliminates or reduces the need for expensive equipment
- Automates hyper-scale ephemeral key management

### SDP implementation

- Separates control and data channels
- Authenticates prior to connection
- Is policy-based

### Eclipz enhances

- Requires no gateway to set up secure tunnels
- Supports multiple point-to-point sessions
- Delivers faster performance with lower bandwidth