

## DoD Zero Trust Strategy Review

DoD wants to ensure that frontline warfighters have access to data wherever and whenever they want!

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# DoD Goal: Provide Data To Warfighters Wherever & Whenever They Want

#### What is new:

 Data is being moved closer to warfighters - Mobile Data

### Why is it important:

 Authorization now travels with the data to ensure access

#### XQ Message Value:

 First and only Zero Trust Data Protection solution with persistent policy enforcement for mobile data

#### Increasing Accessibility: User Checks and Balances

Challenge: Warfighter interoperability and missions require a wide spectrum of partners, including DIB users, to access DoD networks safely and securely. Authorization to be on and authentication to get onto networks both need to occur. Simultaneously, DoD must institute safeguards to keep malicious actors out — whether state-sponsored seeking intellectual property or persons with malicious intentions.

Pre-ZT Architectures: Attempts to "lock-down" networks (e.g., from certain locations or time periods) and/or to overly restrict access to essential data (e.g., data base or file restrictions) hinder collaboration between DIB users. This increasingly occurs out of an abundance of caution to keep malicious actors out – and impacts interoperability at all mission levels.

Post-ZT Architectures: Adoption of a new, Zero Trust cybersecurity approach results in an effective set of checks and balances. DIB users located overseas and working outside "normal" business hours now can quickly gain authorization to access a sensitive network once they are authorized and authenticated successfully. This enables partners to access data WHEREVER and WHENEVER needed.





### New DoD 7 Pillar Zero Trust Framework

### **DoD Zero Trust Capabilities**

| User  | Device  | Application & Workload                               | Data                                      | Network & Environment                    | Automation & Orchestration                                     | Visibility & Analytics                               |
|---|---|--|---|--|--|--|
| 1.1 User Inventory                              | 2.1 Device Inventory  | 3.1 Application Inventory                            | 4.1 Data Catalog Risk<br>Assessment       | 5.1 Data Flow Mapping                    | <b>6.1</b> Policy Decision Point (PDP) & Policy Orchestration  | 7.1 Log All Traffic (Network Data, Apps, Users)      |
| 1.2 Conditional User<br>Access                  | 2.2 Device Detection and Compliance   | 3.2 Secure Software Development & Integration        | <b>4.2</b> DoD Enterprise Data Governance | 5.2 Software Defined<br>Networking (SDN) | <b>6.2</b> Critical Process Automation                         | 7.2 Security Information and Event Management (SIEM) |
| 1.3 Multi-Factor<br>Authentication              | 2.3 Device Authorization with Real Time Inspection                              | 3.3 Software Risk<br>Management                      | 4.3 Data Labeling and Tagging             | 5.3 Macro Segmentation                   | 6.3 Machine Learning   | <b>7.3</b> Common Security and Risk Analytics        |
| 1.4 Privileged Access<br>Management             | 2.4 Remote Access   | 3.4 Resource Authorization & Integration             | 4.4 Data Monitoring and Sensing           | 5.4 Micro Segmentation                   | 6.4 Artificial Intelligence                                    | 7.4 User and Entity Behavior Analytics               |
| 1.5 Identity Federation &<br>User Credentialing | 2.5 Partially & Fully Automated<br>Asset, Vulnerability and Patch<br>Management | 3.5 Continuous Monitoring and Ongoing Authorizations | 4.5 Data Encryption & Rights Management   |  | 6.5 Security Orchestration,<br>Automation & Response<br>(SOAR) | 7.5 Threat Intelligence Integration                  |
| I.6 Behavioral, Contextual D, and Biometrics    | 2.6 Unified Endpoint<br>Management (UEM) & Mobile<br>Device Management (MDM)    |  | 4.6 Data Loss Prevention (DLP)            |  | 6.6 API Standardization  | <b>7.6</b> Automated Dynamic Policies                |
| 1.7 Least Privileged<br>Access                  | 2.7 Endpoint & Extended<br>Detection & Response (EDR &<br>XDR)                  |  | 4.7 Data Access Control                   |  | 6.7 Security Operations Center (SOC) & Incident Response (IR)  |  |
| 1.8 Continuous<br>Authentication                |   |  |   |  |  |  |
| .9 Integrated ICAM<br>Platform                  |   |  |   |  |  |  |





### New DoD 7 Pillar Zero Trust Framework

| DoD Zero Trust Data<br>Requirement      | XQ Message Feature                               | Warfighter Benefit          |
|---|--|-----------------------------|
| 4.1 Data Catalog Risk Assessment        | Support of all data types in one platform        | Multi-mission capability    |
| 4.2 DoD Enterprise Data Governance      | One Dashboard to create and monitor policies     | Simplified operations       |
| 4.3 Data Labeling & Tagging             | Unique Meta Tag attached to every block of data  | Easier application support  |
| 4.4 Data Monitoring & Sensing           | Real Time Tracking of data location              | Data exfiltration monitor   |
| 4.5 Data Encryption & Rights Management | Crypto agile encryption to match access policies | Improved system performance |
| 4.6 Data Loss Prevention (DLP)          | DLP content scanning for outbound Emails         | Reduced data leakage        |
| 4.7 Data Access Control                 | Policy-based access to encryption keys           | Coalition data sharing      |



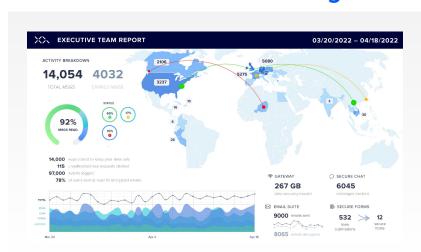


### XQ Zero Trust Data Protection: Policy Follows Data

Mobile Data Problem: Email, Files, IoT Data, Imaging . . . are on the move

**Zero Trust Data Solution:** Policy-based Key Distribution based on Geo-Location and Identity of software program requesting access

## XQ enables warfighters to see where their data is & who is accessing it



#### **XQ's Zero Trust Data Protection**

Secure Email & Files

IoT / Data Lakes

Secure Mobile 5G/Satellite Comms

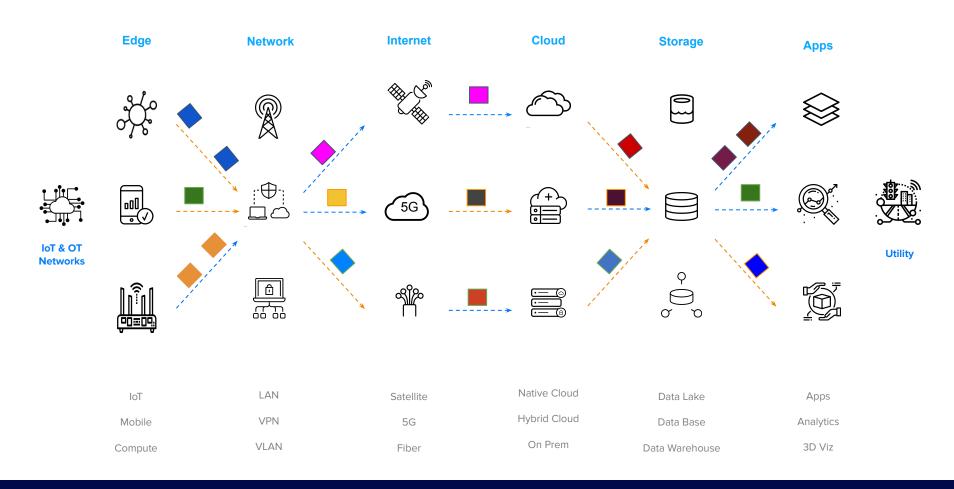
VPN & MACsec replacement





## Old Approach to Mobile Data: Re-encryption

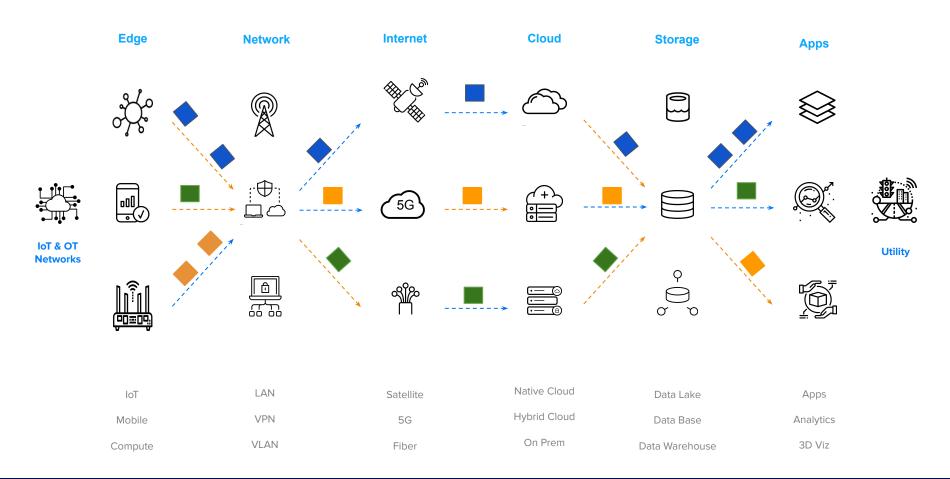
# Every Time Data Crosses A Network Boundary Or Is Stored In A Different Server The Encryption Key Is Changed





### XQ Breakthrough: Persistent Policy Enforcement

## Zero Trust Data Creates A Unique Meta-Tag Which Travels With The Data To Enable Persistent Policy Enforcement





XQMSG.co

# Zero Trust Data Gateway Secure Data-in-Flight and At-Rest

Effortlessly transform your cloud data transfer workflow



**XQ Zero Trust Data Monitoring** 

The First Zero Trust

Data Gateway

Secure hybrid cloud and S3 data transfer simplified

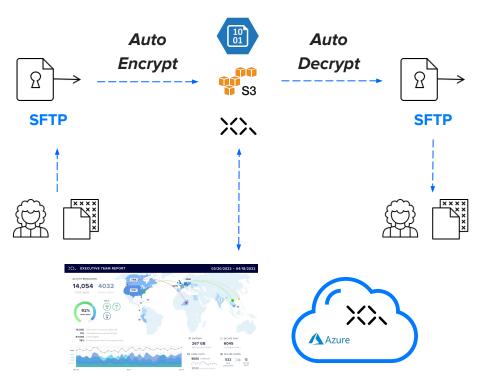
Full chain of custody to ensure data integrity and compliance

- Every data object uniquely protected and tracked
- ITAR, CMMC, NIST-CUI, HIPAA, FINRA, ISO 270001

Breakthrough Data Sharing Powered by Zero Trust Data Protection

# S3 & Azure Blob Secure Cloud Storage Every Bucket is now a Zero Trust Vault

Effortlessly transform your data storage workflow



**XQ Zero Trust Data Monitoring** 

User friendly secure storage for infrastructure you control

Simplify your security and sharing

Full chain of custody to ensure data integrity and compliance

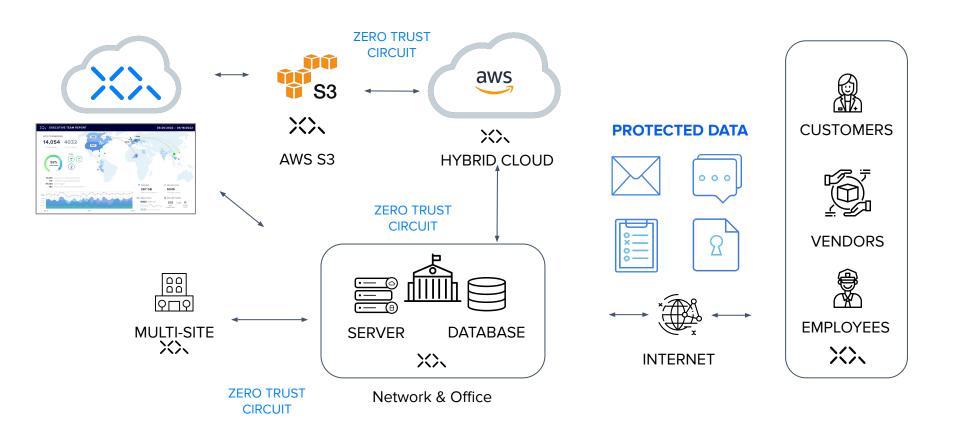
- Every data object uniquely protected and tracked
- ITAR, CMMC, NIST-CUI, HIPAA, FINRA, ISO 270001

Breakthrough Data Sharing Powered by Zero Trust Data Protection



# XQ Seamlessly Protects CMMC Data Across Your Workspace

Full chain of custody to ensure data integrity and compliance.



### Thank You For Your Time



Contact XQ For Zero Trust Data Protection Demo or Trial Account

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