rasilient

enabling forensic-grade surveillance™

NFDCloud

VMS-Agnostic Video Surveillance Cloud Platform for Enterprises

Product Information Sheet

Rasilient's patent-pending **NFDCloud** is a VMS-agnostic, open-platform cloud video surveillance system. It is ideally suited for enterprises that are concerned about their security and have multi-branches with video surveillance cameras at each branch. **NFDCloud** is architected with cybersecurity at its core (**PrivateLok**) and prevents the breaches commonly encountered in a VSaaS environment. With **NFDCloud**, surveillance recording at each branch office is uploaded via **NFDLink** to the Cloud storage, **NFDStack**. This provides CAPEX savings in each branch office and Headquarters' storage, and OPEX savings in centralized storage management and maintenance. OPEX is also achieved with Rasilient's patent pending **NFDLink** technology, which enables the use of low cost commonly available broadband or wireless services rather than leased lines or fiber to send the video recording with no degradation in video quality. This architecture provides further CAPEX and OPEX savings as the needs of the enterprise change by providing unlimited scalability to adapt to the changes. For security, **NFDCloud** is based on the latest cyber security technologies, namely 256-bit encryption and TLS v1.2.

Features

- VMS-agnostic system supporting all available VMS
- Simple lower cost edge video surveillance system with minimum storage
- PrivateLok provides user-controlled encryption for uploaded video
- GUI provides visibility of all system resources
- Utilizing low cost commonly available broadband or wireless services for global connectivity
- Latest cyber security
- OpenStack™ object storage
- Fully redundant highly scalable centralized storage system with ultra-high data integrity and reliability

Applications

- Enterprise on-premise video surveillance network and storage system
- Hosted private cloud for video surveillance

For more information contact:

Tel: +1.408.730.2568|**Toll Free:** +1.888.902.8981|**Website:** www.rasilient.com|**Sales:** sales@rasilient.com|**Technical Support:** techsupport@rasilient.com

NFDLink enables the use of commonly available broadband or wireless services to send video recordings with no degradation over network with bi-directional packet loss of up to 10%. Intelligent end-to-end video caching, multi-thread communications and optimized object size are used to penetrate all available/dynamic networks. It provides two-level encryption with 256-bit encryption and TLS v1.2.

PrivateLok is zero knowledge video encryption that runs on top of NFDLink at the edge. It encrypts videos before they're recorded to the Cloud. Users define and manage their own unique keys at the edge and are the only ones with access to it.

NFDStack is an OpenStack™ based object storage system using Rasilient's award winning NFD™ servers and storage systems. It implements OpenStack's Keystone and Swift services to provide authentication, authorization, and object storage management. Rasilient's NFD™ servers and storage systems are all redundant in architecture. For data integrity and reliability, Rasilient's NFD™ storage systems implement RAID 5/6 and Rasilient's patented Proactive™ technology which enables the system to prevent unrecoverable data loss from multi-drive failures. Rasilient's storage architecture allows the system to readily scale according to storage requirements.
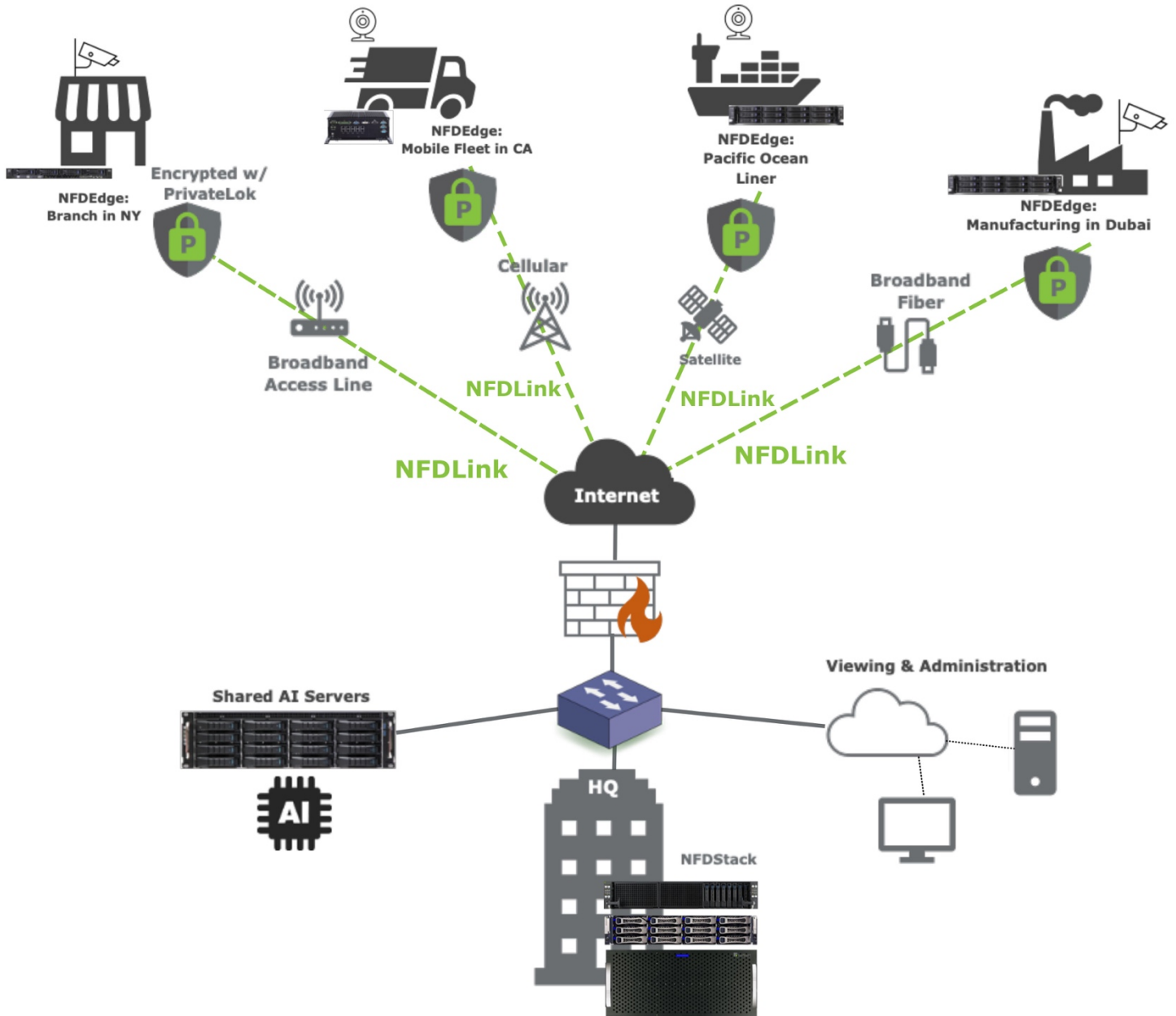
The **NFDCloud** GUI provides visibility for the video quality, network, camera, and the storage status.

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NFDEdge:
Branch in NY

Encrypted w/
PrivateLok

Broadband
Access Line

NFDLink

NFDEdge:
Mobile Fleet in CA

Cellular

NFDLink

NFDEdge:
Pacific Ocean
Liner

Satellite

NFDLink

Broadband
Fiber

NFDEdge:
Manufacturing in Dubai

NFDLink

Internet

Shared AI Servers

AI

Viewing & Administration

HQ

NFDStack