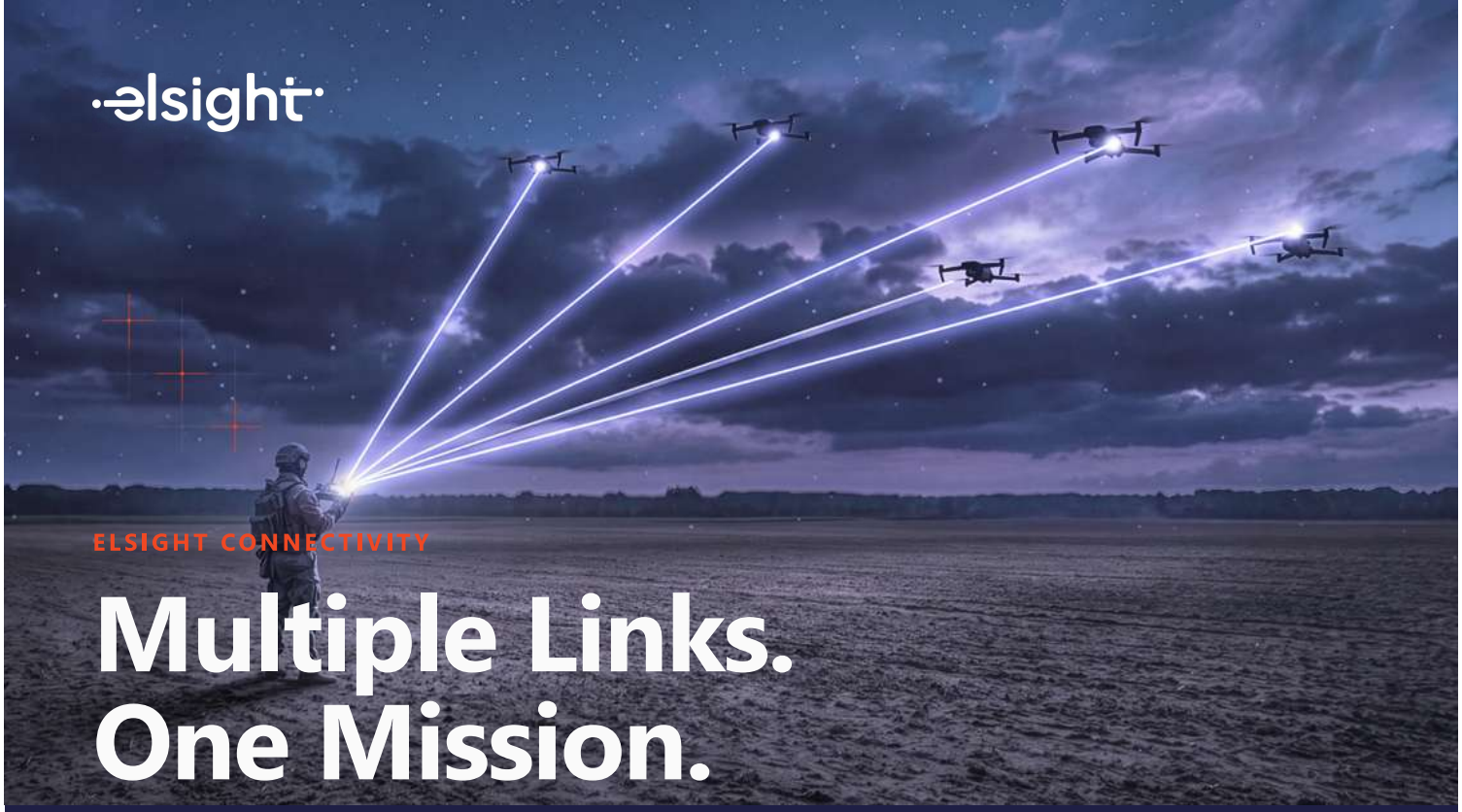


ELSIGHT CONNECTIVITY

# Multiple Links. One Mission.

## Resilient Multi-Link Connectivity for Uncrewed Systems

Elsight Connectivity bonds cellular, satellite, and RF links simultaneously into one resilient, encrypted connection. Powered by Halo, it supports command and control, video, and telemetry across air, land, and maritime operations, reducing dependence on any single network.

Compact and platform-agnostic, Halo brings resilient communications to uncrewed systems operating through changing coverage, challenging terrain, and contested environments.

### When Networks Change, Keep the Mission Moving.

Terrain can obstruct radio links. Cellular coverage changes as platforms move. Networks become congested, and interference can degrade communications.

Halo continuously adapts traffic across available links, helping maintain the connection between operators and deployed platforms. When one path degrades, other available paths continue carrying mission data.

### Bonding, Not Failover.

Halo bonds public and private LTE/5G, satellite, and RF links simultaneously into one logical connection. Multiple networks actively carry mission data, reducing dependence on a single primary link.

As conditions change, Halo adapts traffic across available paths within the bonded layer, helping maintain communications without manual network switching.



# How It Works.

Multiple networks. Working together for your mission.

### 1 Aggregate
**Bring Every Link Together.**

Halo bonds cellular, satellite, and RF/MANET links into one resilient connection, using multiple networks simultaneously.

### 2 Orchestrate
**Prioritize What Matters.**

Halo continuously evaluates link performance and distributes command and control, video, and telemetry across available paths according to mission priorities.

### 3 Protect
**Adapt as Conditions Change.**

When a link degrades or becomes unavailable, Halo adjusts traffic across the remaining active links to help maintain mission continuity.

### 4 Secure
**Protect Mission Data.**

AES-256 encryption and secure VPN tunnels protect data as it travels across the bonded networks.

# Every Network Adds Strength.

**Public LTE/5G**
Broadband connectivity across available cellular carriers.

**Private cellular networks**
Connectivity through dedicated LTE/5G infrastructure.

**Satellite**
Additional reach where terrestrial coverage is limited.

**RF / point-to-point**
Direct communications as part of the bonded connection.

**One Resilient Connection**

**Command and control, video, and telemetry**

# Why Rely on One Network?

| WHAT MATTERS | SINGLE-NETWORK CONNECTIVITY | ELSIGHT MULTI-LINK CONNECTIVITY |
|---|---|---|
| **Networks in use** | One network | **Multiple networks simultaneously, with data distributed across paths** |
| **When a link degrades** | Communications are affected until the link recovers | **Other available links continue carrying data** |
| **Available capacity** | Limited to one link | **Combined capacity across active links** |
| **Coverage** | Depends on one network's reach | **Combines coverage from cellular, satellite, and RF** |

# What Elsight Connectivity Delivers.

### Extended Reach

**BVLOS AND NLOS**

Connect operators with remote platforms beyond visual and direct radio line of sight, using available cellular, satellite, and RF coverage.

### High Bandwidth. Responsive Communications.

Combine available link capacity to support HD video, command and control, and real-time telemetry. Dynamic link management adapts traffic to network performance and mission priorities.

### Carrier Flexibility

Work across multiple cellular operators and public or private networks, reducing carrier dependence and enabling a communications architecture suited to each deployment.

### One Connectivity Layer. Every Domain.

Integrate Halo into UAVs, UGVs, USVs, and tethered systems, bringing a consistent connectivity approach across air, land, and maritime operations.

### Support for BVLOS Approval Requirements

Link redundancy, reliability features, and Remote ID functionality help support the communications and identification requirements of BVLOS operations.

### Security Built In

Protect mission data with AES-256 encryption and a double-VPN architecture. Packet distribution across bonded links adds another layer of protection.

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ELSIGHT CONNECTIVITY

# Built Around Your Mission.

### For OEMs: Integrate Once. Expand Your Options.

Bring multiple communications technologies into one connectivity layer. Halo supports integration across UAVs, UGVs, USVs, and tethered systems, helping manufacturers address different customer environments within a consistent architecture.

### For Defense Teams: Reduce Network Dependence.

Combine complementary communications paths to support operations in challenging terrain and contested environments. Multiple active links reduce reliance on any one carrier or communications technology.

### For Operators: Focus on the Mission.

Access command and control, video, and telemetry through one logical connection while Halo manages changing link conditions in the background.

# Across Platforms. Across Applications.

### Defense and Public Safety

Support remote platform control, persistent ISR feeds, and wide-area search and rescue coordination.

### Delivery and Logistics

Maintain communications as platforms move through changing network coverage along delivery routes.

### Industrial Inspection

Connect assets inspecting pipelines, power lines, railways, and remote or hazardous sites.

### Maritime Operations

Combine available cellular, satellite, and RF links to support USV control, video, and telemetry.

# Connectivity at the Core of Mission Enablement.

Halo is Elsight's mission enablement engine, with resilient connectivity at its foundation. It brings communications technologies together to help uncrewed systems stay connected as operating conditions change.

**BUILT ON HALO'S PROVEN FOUNDATION**

- 500,000+ operational hours
- 100+ active customers
- Battle-tested deployments in complex operational environments
- Included on the DCMA Blue List
- Available through the UAS Marketplace

## Give Your Mission More Ways to Stay Connected.

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