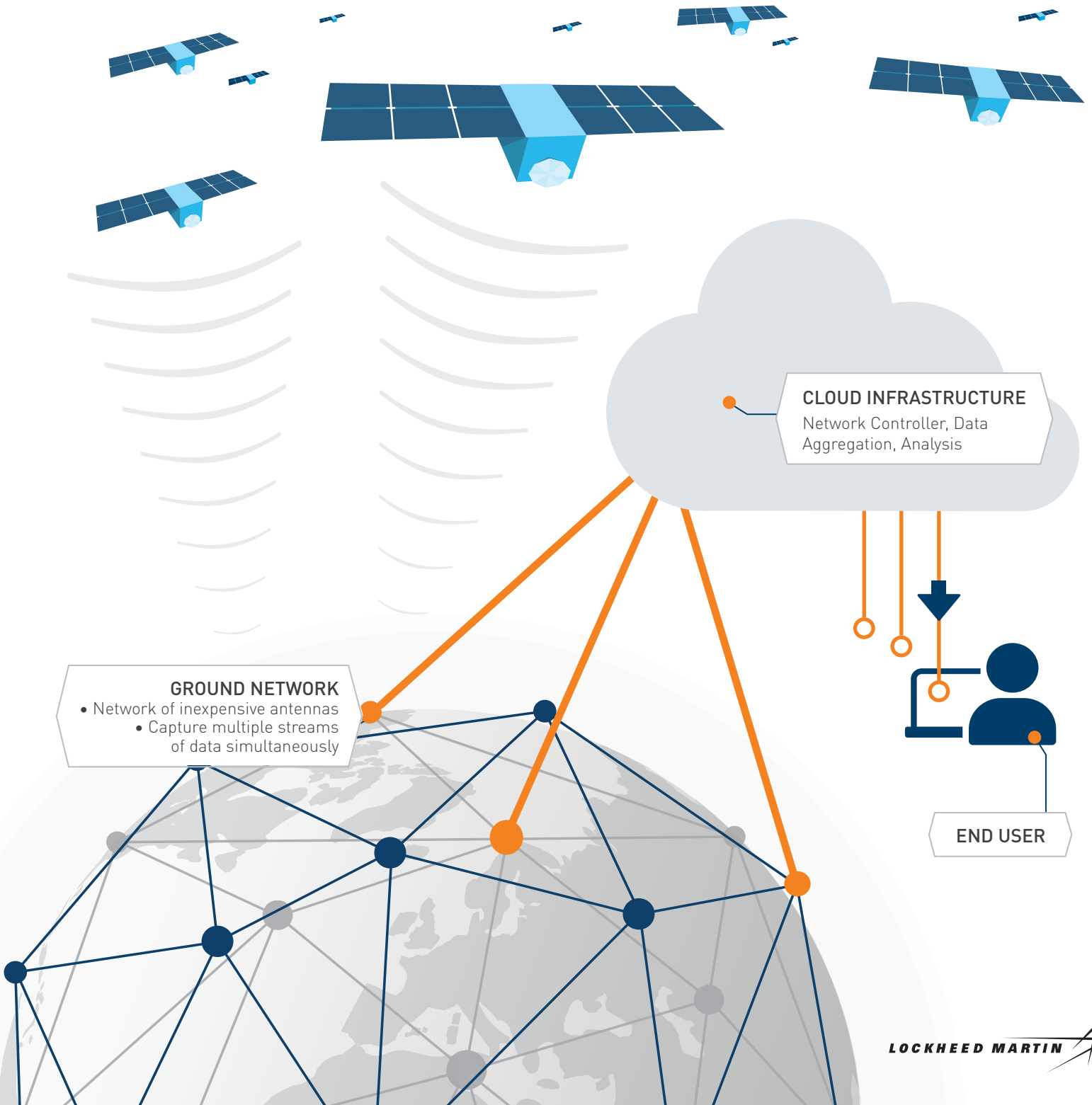




## Virtual Resilient Ground

A turn-key, cloud-based solution for satellite ground service that delivers data your way, when you need it



# Verge™

## VERGE SATELLITE CONNECTION

### OVERVIEW

Verge is a new service that's driving down the cost of space by using a network of low-cost receivers combined with the computing and storage power of the cloud. Our customers downlink more data with better frequency without building an expensive ground network.

The key to lower cost is using commercial off-the-shelf components for the bulk of each Verge antenna. That makes it less expensive to scale up the number of antennas in a distributed network. All Verge antennas need is a fiber connection to the cloud.

The real magic happens in the cloud. Verge software processes and combines data streams into a single stream - pulling data out of noise and onto the cloud for easy access.



### SATELLITE DATA ON YOUR TERMS

### VALUE

**AFFORDABLE:** Augments large dedicated ground terminals with a cloud-based service without any hardware or software to purchase

**COMMUNICATION:** Enables fleets of LEO satellites to communicate more affordably and fly more mission capability

**MULTIPLE ACCESS:** Spectrum efficiency through RF frequency re-use and multiple concurrent access

**DUAL-USE:** Private-Public Partnership, cyber-hardened, and discrete form factor

**RESILIENCE:** Quantity of receivers and geographic distribution of antennas mean no single point of failure, more up-time and higher reliability

**REDUCED SIZE, WEIGHT AND POWER (SWAP):** Potential reduction of future satellite size, weight, and power because spacecraft no longer need to track antennas

**RAPID PROTOTYPING:** Enables experimental LEO satellites to downlink without the expense of a dedicated terminal

### SOFTWARE DESIGN

