



Connectivity  
can fuel  
the future.

**Snapshot—digital transformation**

Viasat is your strategic partner for secure digital transformation





# Snapshot - digital transformation

## The industry—leading partner for your digital transformation journey

As the world's leading network and technology provider for connecting and securing over 1,300 complex distributed sites and operational assets around the globe, Viasat provides digital transformation bundles that accelerate technology adoption and empower customers.

Wherever you stand in the digital transformation journey, our innovative mindset toward creating application layer solutions will transform your business. We are the first remote communications provider to offer fully integrated solutions that combine IIoT with advanced video applications and real-time data analytics. At Viasat, we deliver leading-edge technology as well as backup connectivity services to ensure network reliability in more than 6,000 sites.

Viasat is your partner for connecting, securing, and capturing actionable operational intelligence in order to improve operational performance for increased financial gain.

With 24/7 live monitoring and technical support, our application layered solutions will help your business improve efficiency, data integrity, and security while ensuring the quality and reliability of your network.

Viasat has more than forty years of delivering highly reliable managed communications networks using multiple technologies, and now offers broadband speeds worldwide secured by our unique hardware-generated based encryption—with the ability to do real-time machine learning at the edge of the network in a way that has not been available previously.

### **Only Viasat provides:**

- Unique hardware-based, military-grade, next-generation encryption on all secure network infrastructure that is built to address cybersecurity requirements while delivering artificial intelligence enabled threat detection.
- A diverse and extensive remote video intelligence system, with proven flexibility capable of delivering cost-efficient, high-quality video streams and analysis using ultra-low bandwidth to mobile groups of government personnel at any time.
- Rugged, portable units with durable components to ensure reliability against harsh environments and rough handling for government operations on- or offshore.
- Advanced, best-in-class deployment of satellite networks for responders to communicate first response activities immediately and efficiently during a disaster recovery situation.



# Journey into digital transformation

## **Building the neural-network in energy**

Succeeding in today's digital economy requires investing in a portfolio of solutions that deliver singular advanced technology, services, and expertise. Most companies find that custom-built applications fit into system layers; Viasat's Innovation at Every Level optimizes solutions and customizes integrated technology for customers who are seeking a competitive advantage. From managed communications to industry-leading cybersecurity and breakthrough machine learning analytics, Viasat enables businesses to rely on distributed operations to reach new peaks of performance.

## **Innovation at every level**

The central nervous system is an integration and command system of the human body, collecting streams of sensory data that is continuously transmitted to the brain, spinal cord, and the retinas of the eyes for processing. The IIoT ecosystem needs a brain to tell the body how to function; a spine to perform those commands, and neurons to transport data from the brain to each part of the body. If the software is the brain of IIoT; sensors are the nervous system.

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## **Cognitive computing**

Similar to the human brain, the cognitive computing level is where all thinking, analyzing, and strategizing beings. Viasat's Viasat Live™ platform lets you activate machine learning analytics from large-scale IIoT data, so you can take operational performance to the next level. Built to leverage industry-standard WITS/WITSML protocols, Viasat Live can capture, process, and analyze real-time data within seconds.

## **Streaming analytics**

Streaming Analytics controls the reflex actions of our process, similar to the spinal cord in the human body, responding to signals and addressing tactical decisions by comparing analytical data with historical information in real-time. Viasat is able to provide global 360° data security protection for sensitive information transiting any network.

## **Edge analytics**

The Edge Analytics level can be described at a single neuron that filters the information received. This allow sensors to collect data and determine what is needed to be sent upstream. IIoT sensors function autonomously and are powerful enough to perform analysis directly on a device—enabling the device to take some level of action, even if it's disconnected from the larger IIoT process.

## Mapping solutions to digital transformation lifecycle

### **Roadmap for innovation growth**

Understanding where to begin, next steps, and mapping the course to digital success requires a partner who shares this vision, can support it with appropriate solutions today, and has a roadmap for innovation growth in the future.

### **Digital transformation lifecycle**

The lifecycle of digital transformation represents a shift of innovation from analog into the hybrid age of digital. Despite these fundamental shifts, many of the digital initiatives to date by competitors could be seen as conservative with limited impact on existing operating businesses. Technology innovations such as artificial intelligence and the Industrial Internet of Things (IIoT) are transforming the industry and can be depleting to a company's resources.





By combining advanced, application-layered solutions, Viasat can transform and manage the entire content lifecycle and automate manual processes while delivering an optimal combination of cost, quality, safety, and reliability for any network within our market of service.

Viasat has moved beyond its historical focus on basic communications connectivity services. Our digital transformation solutions are mapped across four different phases in the lifecycle:

### Analog

Basic connectivity deployed. No/limited cybersecurity.  
No OTT/IoT

### Core comms

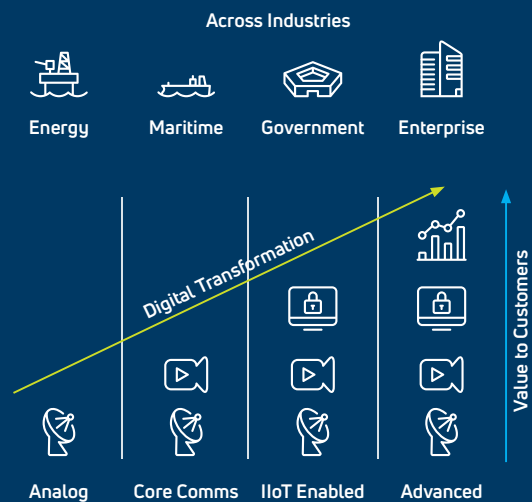
Redundant connectivity, some OTT/IoT apps, basic cybersecurity

### IIoT enabled

Devices deployed & capturing/sharing data, More advanced cybersecurity

### Advanced analytics enabled

Using machine learning analytics applications to capture all data, advanced cybersecurity with threat detection and advanced protection.



# Snapshot - digital transformation

## Digital transformation diversification for business

### **Full portfolio of integrated digital transformation services**

Designed with the future in mind, Viasat's digital transformation platforms comprise several services and applications. Each platform is tailored to meet the needs of any organization within the Enterprise, energy, maritime, or government markets, regardless of transformation level. We analyze each organization and develop solutions for every level. Our diversification process offers integrated technology services that accelerate the startup of transformation over to digital, facilitate change and upgrades to applications, and provide cost-effective operations. From connected sensors to holistic services, our diverse levels of solutions provide the ultimate business result of digital transformation through the following options:

#### **Level 1: analog**

##### **Digital transformation**

Viasat is able to rapidly enable on-site IP connectivity with our networking solutions that deliver the optimal combination of cost, quality, service, and reliability. Viasat's technical services and onsite maintenance provide specialized telecoms support to global enterprises using our complete knowledge and command of telecom standards, requirements, licenses, and regulations.

#### **Level 2: core comms**

##### **Bringing assets online**

Level 2 solutions provide customers with ultra-secure, cost-effective data protection for satellite backhaul with L, C, Ka, and Ku bands, and fiber, microwave, and cellular coverage that enables both IP connectivity and networking capabilities in the most challenging remote environments. Packaged with our fully managed Global 360 data security protection application, customers receive the protection required for information transitioning any network. This solution also includes Viasat's Operations Cyber Services (OCS), a provider of Security Operations Center (SOC), that successfully implements the National Institute for Standards and Technology (NIST) Risk Management Framework (RMF). Our tailored approach to cybersecurity provides an extendable foundation for full digital transformation, so your business can capture remote site data and advanced operational analytics that drive profitable growth.

#### **Applications services**

- Managed communications
- Enhanced Cyber Services (ECS)

#### **Services**

- Technical services and onsite maintenance
- Security Operations Center (SOC)





Unleash the  
power of  
connection.

### **Level 3: IIoT enabled**

#### **Enabling IIoT, data, & AI**

For more advanced capabilities, Viasat offers IIoT & specialized applications. These solutions are a range of connectivity, real-time monitoring applications, and end-to-end, “sensor-to-sensor” services that give greater visibility, control, and situational awareness of operations—anywhere in the world. Our suite of Over-The-Top (OTT) products and IIoT application solutions are perfect for network management, remote communications services activation, and integrated billing. The reach of our global deployments gives us purchasing power that we pass on to your organization, giving you the best IIoT coverage with optimal cost efficiency.

#### **Applications services**

- Over-the-Top (OTT)
- Managed communications
- Operations Cyber Service (OCS)

#### **Services**

- IIoT service suite
- Technical services and onsite maintenance
- Security Operations Center (SOC)

### **Level 4: advanced analytics**

#### **Activating operational analytics**

Viasat’s Level 4 solutions help organizations activate machine learning-based analytics from large-scale IIoT data to take operational performance to the next level. Our Intelie Live platform can capture every bit of data across your distributed assets, while processing and analyzing thousands of events per second in real-time. With full-lifecycle managed services for maintenance and support, Intelie Live provides continuous monitoring and processing, and enables proactive notifications of site-specific events and anomalies—to deliver alerts with the information needed for performance continuity and improvement.

#### **Applications services**

- Viasat Live
- Over-the-Top (OTT)
- Managed communications
- Operations Cyber Services (OCS)
- Viasat pipes
- IIoT service suite
- Technical services and onsite maintenance
- Security Operations Center (SOC)

