



INTUITION

WHAT IF YOU
COULD FUNDAMENTALLY
CHANGE THE WAY
SATELLITE NETWORKS
ARE DEPLOYED?

CLICK TO BEGIN 

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Unlocking satellite transformation through ground segment innovation

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A fundamental change

Meet Intuition

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Unifying industry-best technologies with the latest innovations

Virtualized, cloud-based architecture

Intelligent, multi-orbit support

Standards-based network convergence

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Flexible go-to-market models

Intuition at a glance

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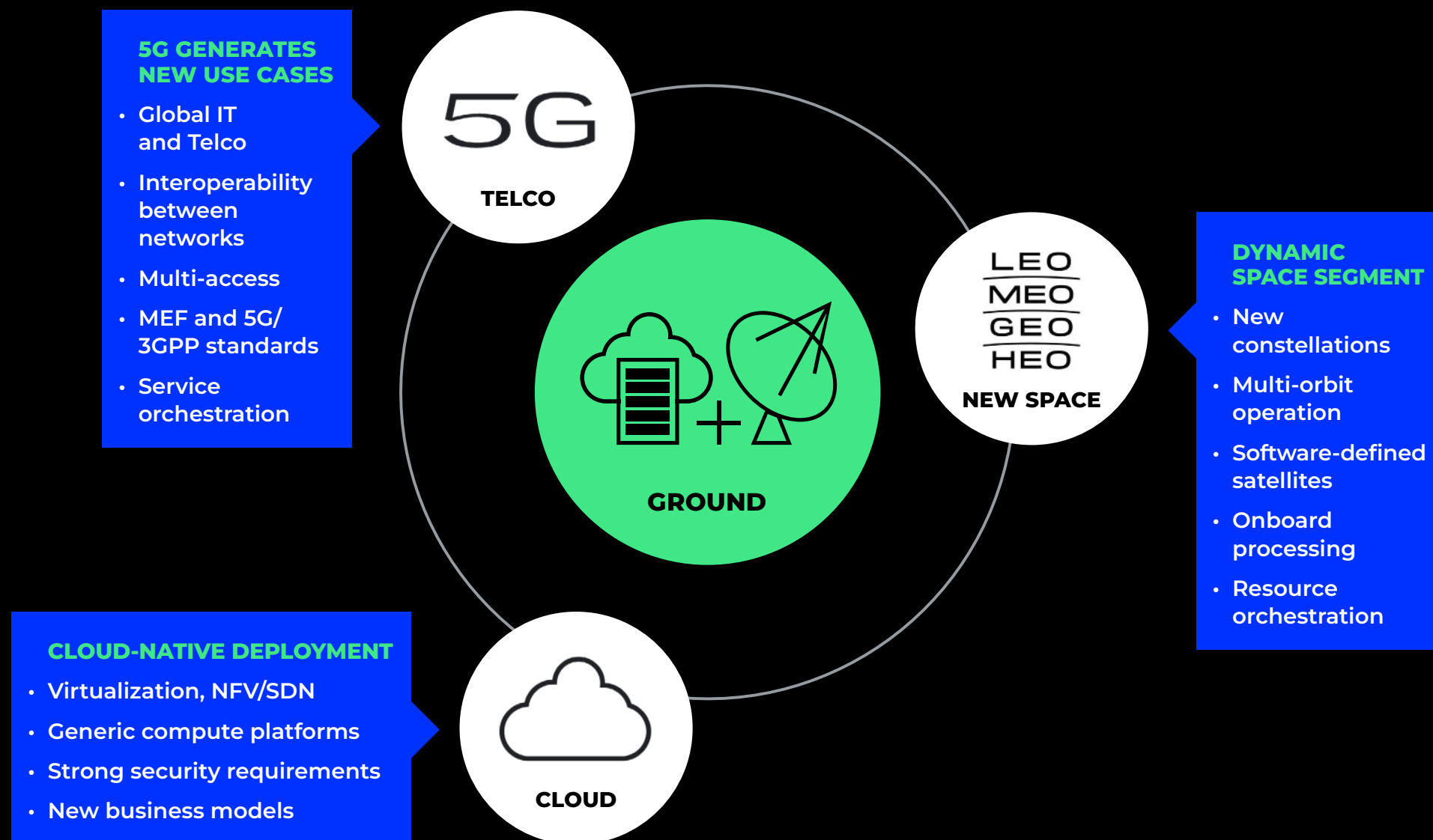
Scale your business one step at a time

Your path to fundamentally change the way networks are deployed

Overcoming the roadblocks to exponential growth

Unlocking satellite transformation through ground segment innovation

In a world evolving at lightning speed, the satellite industry has made significant strides to integrate. The key to satellite transformation lies in the ground segment, serving as the final critical factor in this transformation.



5 roadblocks to growth at scale

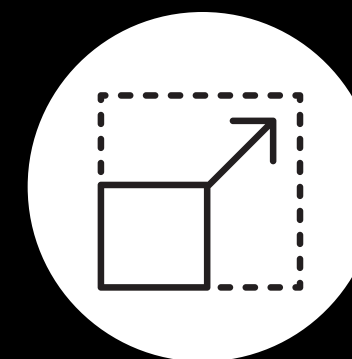
Operators face numerous challenges in network deployment. These common roadblocks impede the true reach and scale of the latest generations of satellites and those to come. To achieve the success they aspire to, operators and service providers need more innovative ground solutions.



**OPERATIONAL
COMPLEXITIES
AND MANUAL
PROCESSES**



**OPTIMIZING
SATELLITE
CAPACITY**



**NEED FOR SCALE
AND SPEED
TO MARKET**



**INCREASED
SECURITY AND
ACCESSIBILITY**



**NETWORK
DEPLOYMENT
FLEXIBILITY**

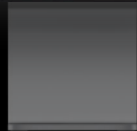
Introducing Intuition

**WHAT IF
YOU
COULD...**

amplify the potential of
your satellites?

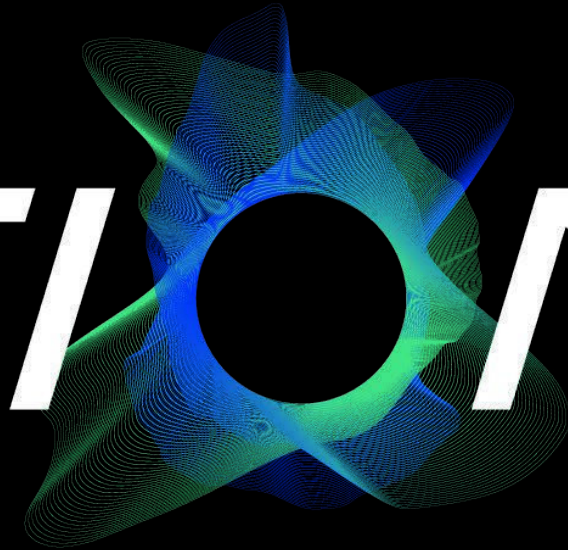
chart a path to deliver
services across a
network of networks?

provide unity of operations
on your journey to
integration with the larger
telco ecosystem?



INTUITION

AT EVERY STEP

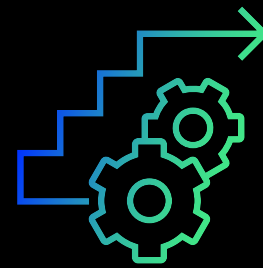


Watch the
Intuition video

An advanced satellite networking ground system based on a virtualized, cloud-native, multi-orbit architecture that capitalizes on the latest standards-based technologies and unifies iDirect's industry-best technologies.

Intuition core capabilities

Unifying industry-best technologies with the latest innovations



INDUSTRY-BEST AND JOURNEY-ENABLED INFRASTRUCTURE

The confidence of investment protection and best-in-class technologies



VIRTUALIZED, CLOUD-BASED ARCHITECTURE

Scale services quickly and securely for the fastest return on investment



INTELLIGENT, MULTI-ORBIT SUPPORT

Deliver tailored services for every application



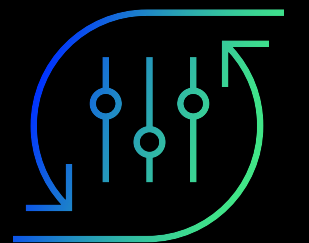
STANDARDS-BASED NETWORK CONVERGENCE

Efficiently integrate your satellite network into the global communications domain



END-TO-END ORCHESTRATION

Dynamically adjust resource and service allocation to meet evolving demand



FLEXIBLE GO-TO-MARKET MODELS

Expand your customer base with the broadest range of business models

Virtualized, cloud-based architecture

Scale services quickly for the fastest return on investment

VIRTUALIZED NETWORK AND BASEBAND PROCESSING

Achieve high performance scale and agility with private and public cloud deployments on COTS equipment, keeping capex low

DIGITALIZATION STANDARDS

Use DIFI standard for satcom cloud-based deployments

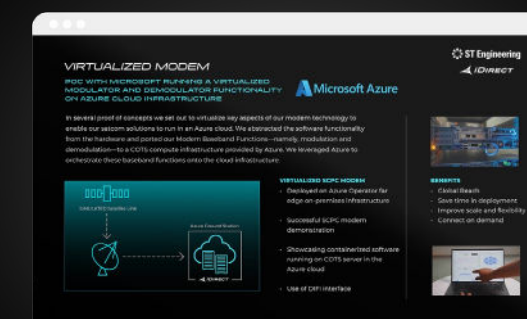
CLOUD-BASED NETWORK MANAGEMENT AND ORCHESTRATION

Unlock high level of scalability and resiliency

VIRTUALIZED MODEMS AND EDGE-CLOUD FUNCTIONALITY

Increase flexibility and deployment speed

Learn more about our recent virtualization demos



Click to read the brief

GROWTH TAKES INTUITION

WHAT DRIVES THE NEWEST OFFERINGS IN THE SATELLITE INDUSTRY?

“Removing technology constraints to enable scale and growth is more possible than ever before. Hyperscalers, bolstered by significant investment capital, are reshaping the satcoms landscape.

We are engaged in Proof-of-Concept initiatives with cloud service providers to demonstrate how we move satcoms towards cloudification.

We anticipate a future where integrated networks create seamless service offerings. When combined with terrestrial, multi-orbit, multi-access connectivity fabric will become a reality.”

Cynthia Harty

SVP CORPORATE DEVELOPMENT, ST ENGINEERING iDIRECT



Intelligent, multi-orbit support

Deliver the right services for every application on every orbit

OPTIMIZED BEAM AND BANDWIDTH MANAGEMENT

Truly differentiated features enable multi-orbit service: optimized beam switching, bandwidth management of beams and satellites, high data throughput, and efficiency

TRACKING ALGORITHM INNOVATION

Synchronize capacity from multiple orbits, allowing for seamless switching among orbital constellations

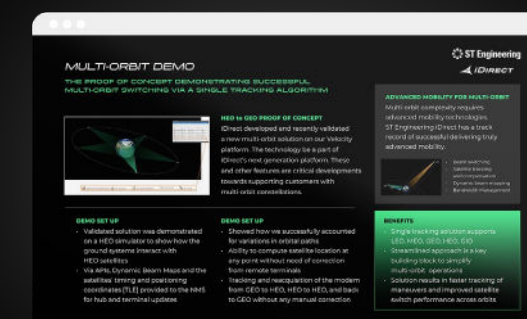
REGENERATIVE PAYLOAD SUPPORT

Support for the regenerative capabilities of next-generation satellite systems to enable flexibility in bandwidth, power, and spot beam coverage

RADIO RESOURCE CONTROLLER APIs AND NEW NMS

Manage multi-orbit networks with complete visibility and control with critical resource and service orchestration features

Learn more about our recent multi-orbit demo



Click to read the brief

Standards-based network convergence

Integrate your satellite network into the global communications domain



ALIGNMENT WITH TELCO STANDARDS

Create operational efficiencies from telco-standards 3GPP and MEF, as well as rich APIs for end-to-end service delivery

5G ARCHITECTURE FOR A NETWORK OF NETWORKS

Interoperability between satellite and terrestrial networks to deliver true end-to-end 5G services that leverage lower-cost terminals

EVOLVE WITH INDUSTRY BEST PRACTICES

Scale your business with the confidence that you are evolving with the global communications industry and a standards-based approach

OPTIMIZED NETWORKS TAKE INTUITION

HOW CAN YOU ALIGN WITH STANDARDS AND REMAIN COMPETITIVE?

“Operators face tough competition. They need every option on the table to compete. Our customers don’t want to be vendor locked. They want resiliency, the lowest operating costs, and multiple sources of innovation.”

Intuition delivers revenue-producing technology to make it easier for our customers to invest via flexible pricing models and spin the network up and down to speed their time to market, increase end customer satisfaction, and open new opportunities.”

Sridhar Kuppanna
SVP ENGINEERING, ST ENGINEERING iDIRECT



End-to-end orchestration

Optimizing space and ground integration



RADIO RESOURCE CONTROL (RRC) MANAGEMENT

Maximize software-defined satellite assets and optimize end-user services with RRC management through APIs

GLOBAL BANDWIDTH MANAGEMENT (GBWM)

Dynamically optimize capacity allocation across beams with industry-leading GBWM as network load and user demand fluctuate

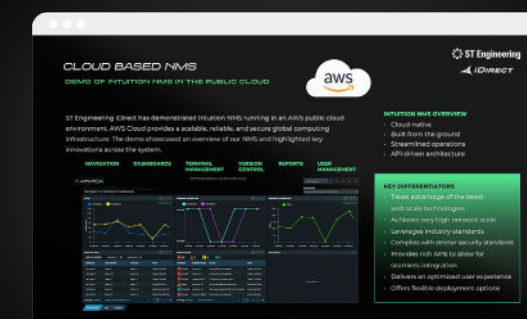
END-TO-END SERVICE ORCHESTRATION

Automatically meet changing demand across all network functions, including terminal and baseband provisioning

SEAMLESS OSS/BSS INTEGRATION THROUGH STANDARDS-BASED APIs

Reduce complexity and ensure end-to-end quality of service (QoS) for operations and business services

Learn more about Intuition NMS



Click to read the brief

CUSTOMER SATISFACTION TAKES INTUITION

WHAT CAN OPERATORS PRIORITIZE IN THEIR NETWORK DEVELOPMENT TO ACHIEVE SUCCESS?

“Operators need the ability to optimize their business models while maximizing customer satisfaction. They need open, flexible, and scalable systems that enable a wide variety of business models. That system must allow them to react quickly to ever changing customer needs.”

Intuition brings together the key technologies on the ground to interconnect space assets to dynamically move capacity where it's needed, creating an optimum solution by unifying operations across networks.”

Tim Verschage

SVP PRODUCT STRATEGY AND DEVELOPMENT, ST ENGINEERING iDIRECT



Flexible go-to-market models

Reach more customers with the widest range of business models

MULTI-SERVICE

Single platform serving all markets

FAST TRACK YOUR GO-TO-MARKET PATH

Choose your optimal business model with industry-leading QoS and GBWM that enables wholesale, managed, and multi-tier VNO services

TAKE FULL ADVANTAGE OF HTS AND SDS

Manage complex, multi-customer networks with a single pool of bandwidth based on GBWM to adhere to complex SLAs

FLEXIBLE BUSINESS MODELS

Enable lower capex, highly flexible models and cloud-based deployments

THE FAST- TRACK TO MARKET TAKES INTUITION

CAN OPERATORS AND PROVIDERS STILL THRIVE AS NICHE BUSINESSES?

"The industry is vibrant with innovation and disruption. New players are shaking things up, forcing everyone to apply more creativity to their go-to-market strategies."

There is a massive market to address, and the winners will be the companies most aligned across the ecosystem, sourcing the best of the best.

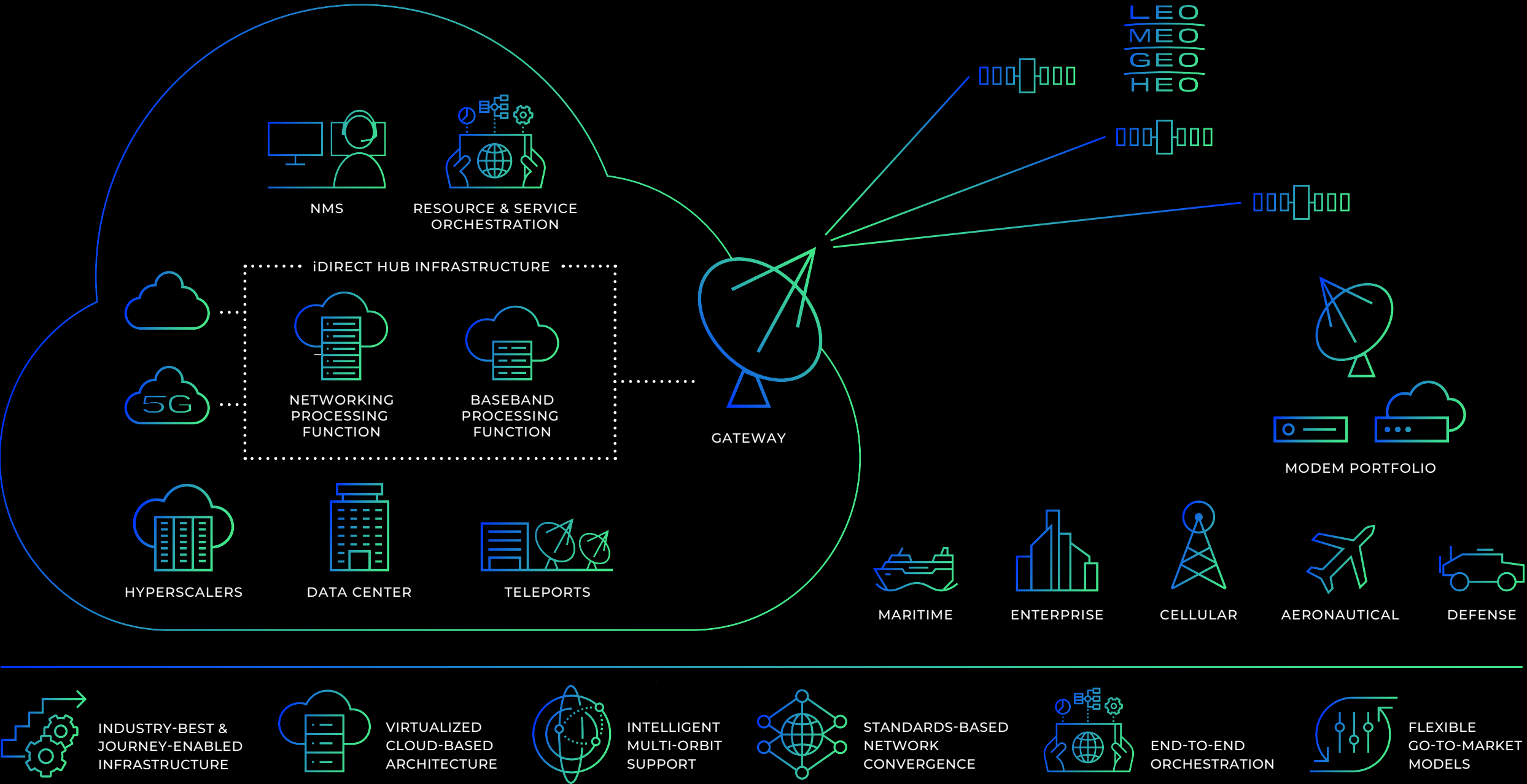
There's a lot at stake, but we are in this together. Intuition will be a critical conduit, fostering not only technological but also commercial interconnections."

Emma Park

SVP MARKET AND GROWTH STRATEGY, ST ENGINEERING iDIRECT



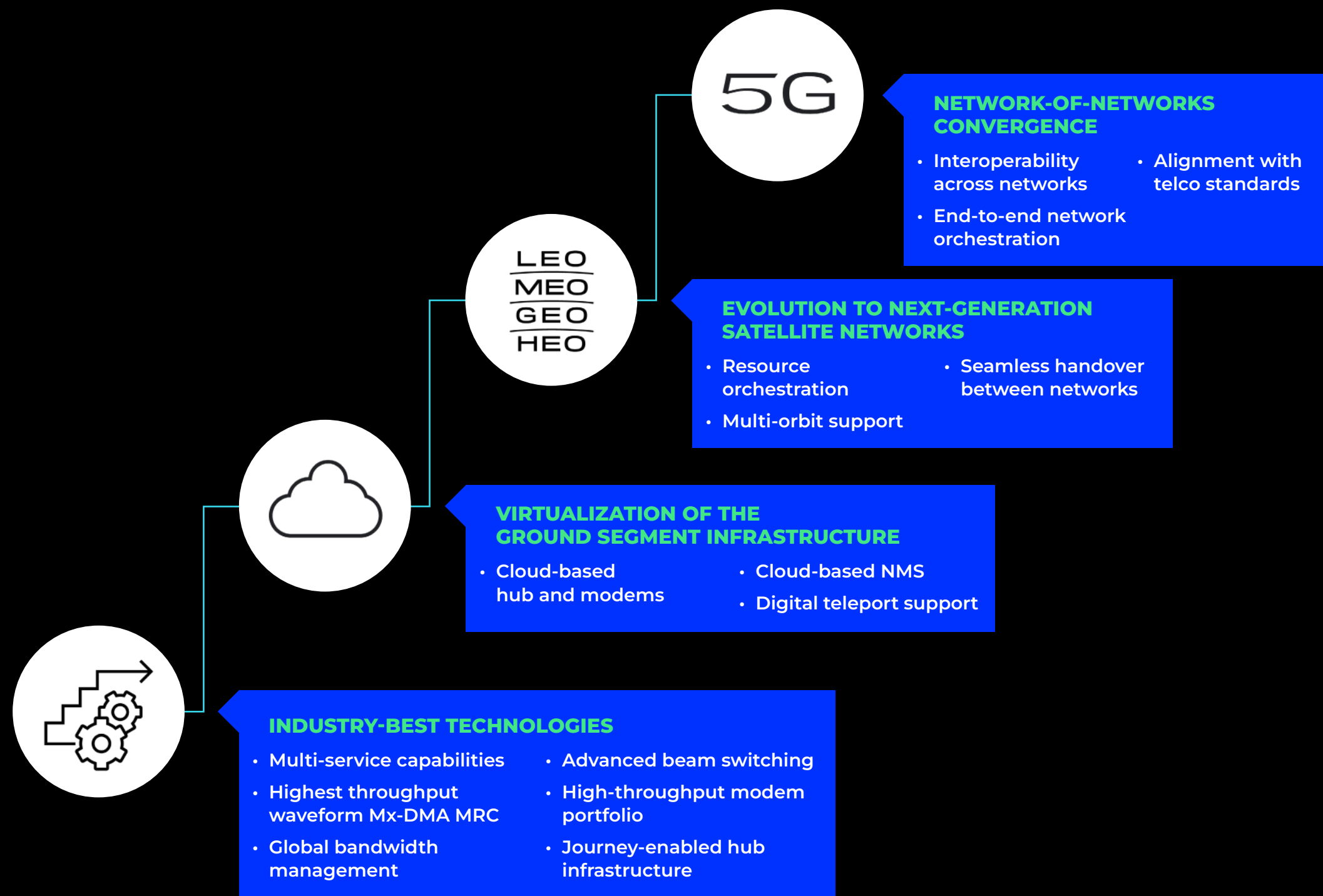
Intuition at a glance



Your journey to Intuition

At every step

Scale your business one step at a time with the certainty that you are evolving in alignment with global communications industry best practices and standards, and with the confidence of investment protection in familiar, trusted products and industry-best technologies.



CHARTING A PATH TAKES INTUITION

HOW IS THE GROUND SYSTEM POISED TO SUPPORT THE TRANSFORMATION OF THE SATELLITE INDUSTRY?

“Our unequivocal solution is Intuition—at every step. Intuition represents the point where everything comes together. The goal of Intuition is to learn and anticipate—to understand patterns of life in the network, and to make the right decisions in this environment of increasing complexity.

Technology will never stand still. The industry must adapt collaboratively within a unified operational environment. Intuition embraces open standards, envisioning a future where we are more interdependent than independent.”

Don Claussen
CEO, ST ENGINEERING iDIRECT



Your path to fundamentally change the way networks are deployed

Extract maximum value from your assets and ensure unity of operations across your networks. Transition to new capabilities at your pace and drive your business forward with confidence at every step.

The next step in your Intuition journey

Ready to unlock the future of satellite networking?

Connect with a dedicated sales representative and discover how Intuition can transform your vision into reality.



Connect now

INTUITION

AT EVERY STEP

 **ST Engineering**

 **iDIRECT**