System Integration Services

Satellite networks are growing more complex. In the era of High Throughput Satellites (HTS), coupled with the availability of new wideband capacity and new constellations, the number of gateways and hub installations is expected to grow rapidly, demanding more resources to support operations.

At the same time, implementation and integration of these gateways require interoperability with multiple constellations (GEO/MEO/LEO) to sustain business models. On the remote terminals, expectations of reduced size and weight grows, and with the emergence of flat panel antenna (FPA) designs that exploits new antenna technologies, various terminal configurations are created. Yet, to address new market applications such as land mobility and maritime with these offerings, Original Equipment Manufacturers (OEM) and Terminal Integrators recognize the need to accelerate their time to market to capture the growing market.

To address the market needs, ST Engineering iDirect offers a comprehensive portfolio of flexible System Integration Services ranging from hub and gateway installations, to complex SATCOM network integration, as well as turnkey integrated terminals such as manpacks, flyaway and driveaway solutions.

ST Engineering

Hubs & Gateway Integration

We offer full turnkey design, supply, installation, integration and commissioning work for the most complex gateways, covering GEO, MEO and LEO constellations. We have access to a wide range of antennas, RF equipment and products from leading industry partners to support a variety of requirements from simple hub installations to complete gateway design and builds.

SATCOM Networks

Complete SATCOM implementations with gateway, base-band and networking equipment involve many critical technical considerations, demanding a well-thought-out plan to provide the optimal architecture and configuration for your needs.

Our team offers a highly integrated SATCOM network complete with network management system (NMS), data analytics and predictive maintenance capabilities to realize a smart Network Operations Center (NOC). We'll work with you every step of the way on every aspect of your integration, from design reviews, to network architecture design, to performance verification and acceptance of the network. Our mission is to provide a reliable network infrastructure which our customers rely on to grow their business.

Terminal Integration Services

We offer a range of customized terminal solutions that includes static, comms-on-the-move and highly portable manpacks. For industry partners that are looking for a trusted terminal integrator, we provide design and integration services, harnessing your antenna technology together with our extensive modem and RF portfolio to bring your terminal to market.

Acceptance Test Procedures

We provide comprehensive test procedures to assure that commissioned systems are tested to meet various performance criteria and provide a reliable platform for many years of continuous operation.

ST Engineering

Our System Integration Service Delivers:

- **Accelerated Time to Market.** With ST Engineering iDirect's Systems Integration offering you will accelerate your time to market, thereby reducing the complexities of system integration while relying on a trusted partner to deliver you a turnkey system faster.

- **Customized Offerings.** We can custom build integrated terminals for your specific needs and design, build and integrate entire hub and gateway systems cost effectively. We can also deliver highly customized solutions targeted at the government and defense markets and qualified to stringent requirements.

- **Integration Experience.** You can trust our expert team with years of integration experience and proven project management skills — we have the experience to deliver complex systems according to your schedule and budget requirements.

Typical System Integration Services Include:

Gateway and Satcom Engineering Design and Integration
Let our team leverage their expertise in sourcing the correct components for you. Our design phase includes a pre-install survey and network architecture review, as well as detailed analysis utilizing best-of-breed baseband, RF and networking components.

Installation and Commissioning
Our experts conduct a comprehensive configuration, installation and commissioning of the gateway and/or satcom infrastructure. The implementation can include the antenna, full RF chain, foundation and civil infrastructure, ventilation and air-conditioning (HVAC) systems, Network Management System (NMS), monitoring and control systems.

ST Engineering iDirect is looking forward to continue serving customers all over the world, providing integration services solutions for ground infrastructures. We are dedicated to doing whatever it takes to ensure your success.

Contact an ST Engineering iDirect Sales Representative today.

ST Engineering