International Communication Age with Satellite

ICASAT

Satellite Telecommunication Service Provider

Company Profile

July 2023

About ICASAT

ICASAT (International Communication age with Satellite) pronounced as "*asre ertebatate bein-ol-melale pars kar*" in native Persian, is a leading satellite VSAT solution provider and System Integrator located in Iran which is licensed from CRA (100/70897) (Ministry of Telecommunication) for providing different kinds of satellite communication services with wide regional presence in Iran. ICASAT has been always keen to develop and deliver excellent satellite solutions, aiming to increase end-use revenue, enhance satisfaction, and provide a real competitive offer for its customers. ICASAT's customized solutions deliver voice, data, video, Internet and other applications to diverse business fields and industry sectors including Cellular and Backhaul, Marine, Banking, oil & gas, Utilities, Energy & Mining, Healthcare and government.
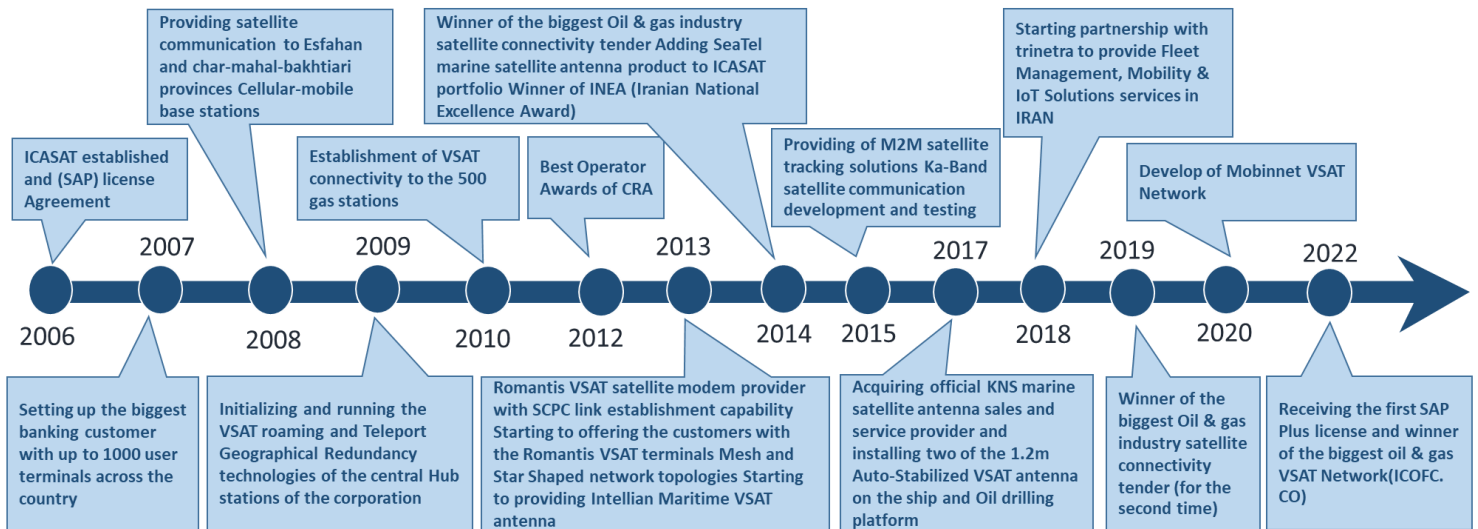
ICASAT B2B services include systems analysis, solution design, implementations for medium and large-scale satellite-based and hybrid telecom projects, presales support, maintenance, training and consultancy. ICASAT is your partner for success. We help you boost your productivity and succeed in an increasingly challenging business world by successfully integrating the latest technology products and solutions that deliver today's mission critical services and solutions.

To boost productivity and succeed in today business world, enterprises and different industry sectors must endorse latest technology products and solutions. ICASAT as your partner to success develops solutions with an eye on increasing revenue, enhancing satisfaction, and providing a real competitive Solutions to our customers. ICASAT provides turnkey solutions and services in the satellite-based communications especially VSAT to the Regional Market. ICASAT's diversified solutions and services fulfill the various needs of all business sectors. Our technical expertise, vast experience in VSAT, and knowledge of satellite networks and telecommunications, ensure that all diversified applications operate smoothly together as one total solution. We help you remain focused on your core business while we remain focused on providing you with latest state of the art technologies that help improve your services to your customers. We have successfully developed a portfolio of offerings with a high level of complexity; thus, developing a reputation based on our customer's word of mouth. Our customers' portfolio is diversified in their business sector: Oil & Gas, Banking & Financial, Cellular Backhaul, Maritime, Telco's, Utilities. Services include, consultancy, solution design, full turnkey implementations for medium and large-scale projects, training, operation & maintenance and professional services.

The company has full expertise in SATCOM technologies like VSAT and MSS and with multiple costumers in different business areas including Cellular Backhaul, Banking, Oil & Gas, Maritime, Emergency recovery and Mining. Our core services rely on IP networks that run on satellite VSAT network with value-added services such as VoIP, Internet and Video conference. In addition to dedicated satellite bandwidth in different frequency bands like C, Ku and Ka, the company owes HUB teleport connected to high-speed backbone network with full redundant option. ICASAT uses well-known VSAT network equipment such as iDirect, Comtech newtec, Romantis when it comes to network design for HUB stations and costumers.

To support our customers IT initiatives, ICASAT takes a full-lifecycle approach and provides design, deployment, maintenance and support services. We have proven experience solving complex Satellite connectivity, redundancy, mobility, security and interoperability challenges. ICASAT NOC center deals with technical challenges that has occurred for costumers providing 24/7 service desk and help desk services.

ICASAT Brief History

2006 — ICASAT established and (SAP) license Agreement

2007 — Providing satellite communication to Esfahan and char-mahal-bakhtiari provinces Cellular-mobile base stations

2008 — Setting up the biggest banking customer with up to 1000 user terminals across the country

2009 — Establishment of VSAT connectivity to the 500 gas stations

2010 — Initializing and running the VSAT roaming and Teleport Geographical Redundancy technologies of the central Hub stations of the corporation

2012 — Romantis VSAT satellite modem provider with SCPC link establishment capability Starting to offering the customers with the Romantis VSAT terminals Mesh and Star Shaped network topologies Starting to providing Intellian Maritime VSAT antenna

2013 — Winner of the biggest Oil & gas industry satellite connectivity tender Adding SeaTel marine satellite antenna product to ICASAT portfolio Winner of INEA (Iranian National Excellence Award)

2013 — Best Operator Awards of CRA

2014 — Providing of M2M satellite tracking solutions Ka-Band satellite communication development and testing

2015 — Acquiring official KNS marine satellite antenna sales and service provider and installing two of the 1.2m Auto-Stabilized VSAT antenna on the ship and Oil drilling platform

2017/2018 — Starting partnership with trinetra to provide Fleet Management, Mobility & IoT Solutions services in IRAN

2019 — Develop of Mobinnet VSAT Network

2020 — Winner of the biggest Oil & gas industry satellite connectivity tender (for the second time)

2022 — Receiving the first SAP Plus license and winner of the biggest oil & gas VSAT Network(ICOFC. CO)

Solutions and Services

ICASAT had built an outstanding array of innovative solutions and services over satellite through a range of established technologies. We've made reliability a top priority by offering field proven systems with sophisticated techniques to keep your operation up and running. That's why top companies in such industries as banking, Oil & Petroleum, Mining, have made ICASAT the leading provider of choice, even in the most remote location. We provide affordable, dependable, high quality, satellite-based solutions that delivers Internet, VoIP and other services right to your desktop. With our quality SATCOM Solutions, we can help you increase productivity, keep your communications costs lower and get in touch with your remote operations, anywhere in the world.

In terms of addressing multiple markets and businesses, ICASAT concerns various types of communication services with different properties for our potential customers. If you need high speed connection or fast-deploying outdoor units, no matter if you are in the sea or in moving, ICASAT provides different solutions for your final needs. ICASAT provides Training and technical consultation, Integration and Value-added application with full expertise in satellite communication systems.

ICASAT Vertical Market Solutions

Emergency | Telecomm Operators | Maritime | Banking | Oil & Gas | Energy & Mining

Some of the main ICASAT services will be explained further.

Satellite Internet

ICASAT is a leading satellite communication solution provider to corporate markets, offering satellite service platforms with high-reliability connections. Via its gateways in Iran and out of Iran border partners in Europe and the Middle East, the company provides IP connectivity with access to the global Internet backbone, as well as an extensive suite of both customized end-to-end solutions and industry-standard services backed by rapid, high-priority support. ICASAT Internet Solutions customers include incumbent telecoms, ISPs, cellular operators, global and local enterprises, government entities and NGOs.

ICASAT internet services consist of ICANET solutions. Other satellite outdoor units that is necessary for customers are also available and ICASAT has vast experience in supplying, installing and maintaining of such equipment.

ICANET provides by ICASAT private hub station and high-speed fiber-optic internet backbone connectivity. Users usually consist of land-based, auto-deploy on-the-pause and marine with dynamic platform, so every customer serves with proper antenna through fixed, Auto-Deploy, Marine and SOTM devices. The service comes in variety of frequency bands (C, Ku and Ka).
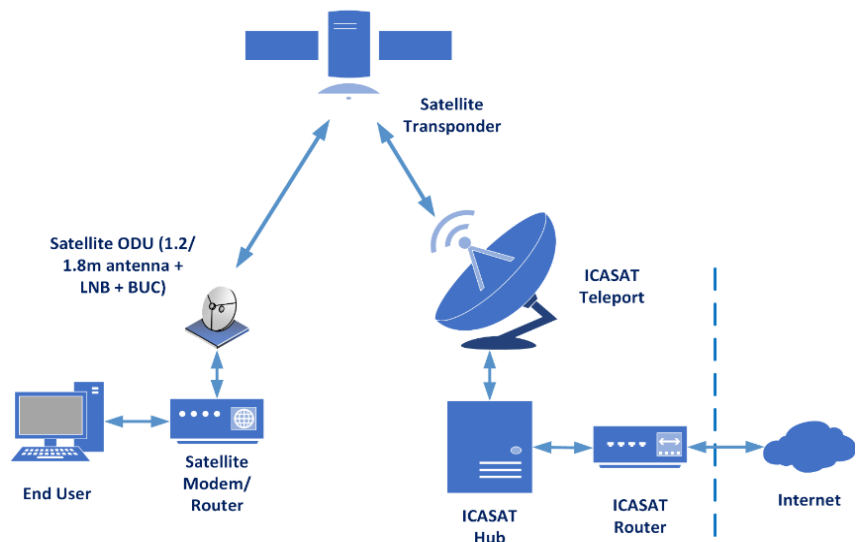
*ICASAT Satellite Internet Network Diagram*

Enterprise Networks

ICASAT's Private Network service is a customized connectivity solution for corporations and governments expecting security and control while hosting their own network equipment. ICASAT's network architecture with one-hop design, provides a solution for latency-sensitive applications that allowed customers to monolithic connect and collaborate between their headquarters and remote branches. With ICASAT's Private Network service, enterprises and governments enjoy significantly increased control across geographic locations, and may also choose to have ICASAT manage their private network.

Satellite VSAT platforms plays a vital role in network efficiency. ICASAT has long term experience in different VSAT platforms such as iDirect, Romantis, newtec and Comtech. These platforms provide multiple access technologies for different network topology needs such as SCPC, DVB-S2, TDMA and MF-TDMA and A-TDMA, DAMA SCPC and Hubless TDMA. Enterprise VSAT services for corporates and organizations can provide with:

- Full network design and implementation with private and fully owned by customer for hub station and remote devices
- Network establishment by helping ICASAT central hub and teleport
- Virtual Network Operator (VNO)

Satellite communications meet a broad range of needs. It plays an important role in the global telecommunications systems. Satellites provide communication links between various points on Earth which relays analog and digital signals carrying data, voice, and video to and from one or many locations around the world. A satellite network typically consists of a transmitting Earth Station with a hub equipment at one end that amplifies and processes the received signal and transmits it back for reception by one or more ground stations commonly referred to as Very Small Aperture Terminal (VSAT). ICASAT has numerous network connection methodologies to run for customers.
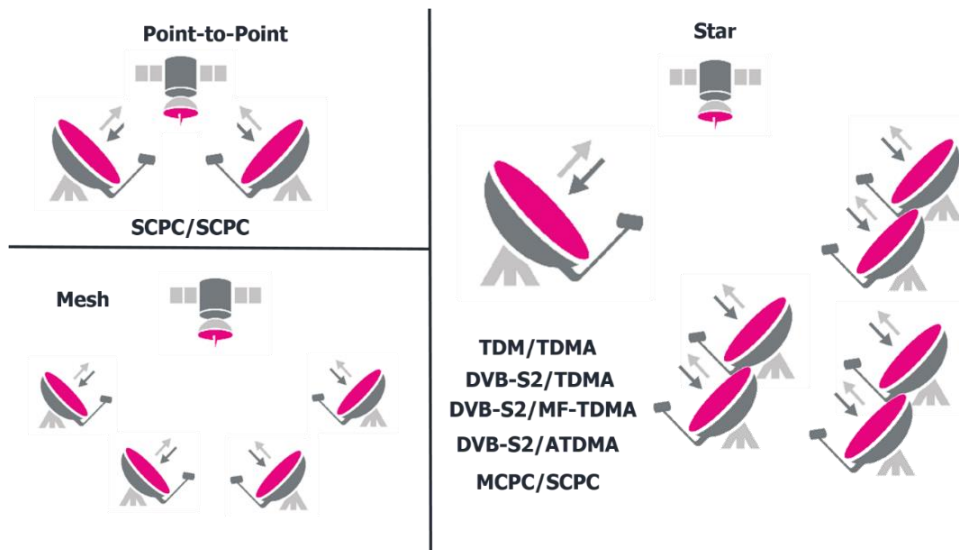

ICASAT proposed network topologies and multiple-access methods

Point-to-point network: Point-to-point satellite network involves a dedicated link between two sites that are located within the same satellite footprint. This type of network easily supports voice, video, and data transmissions using a standard data/voice multiplexer, an SCPC satellite modem and a VSAT terminal at every site. The main point-to-point network technology that supports this method is SCPC.
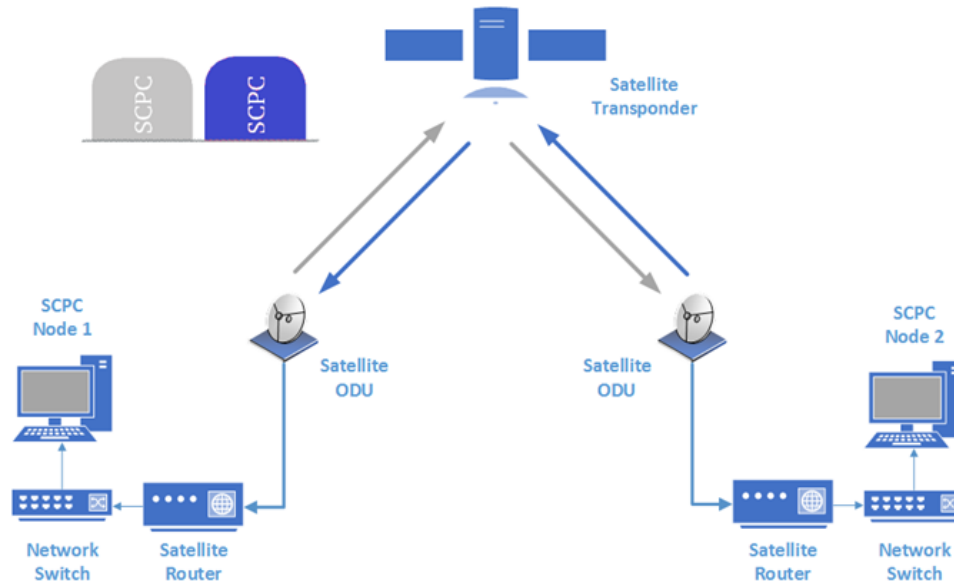
Star network: The star network is the most commonly used topology for both unidirectional and bidirectional networks providing much greater flexibility. This network allows transmission of information in both directions but cannot be transmitted directly from one VSAT to another. All information is routed through the hub station. Different access technologies to achieving star network topology is come to reality such as TDM/TDMA, DVB-S2/TDMA, MCPC/SCPC and DAMA SCPC.
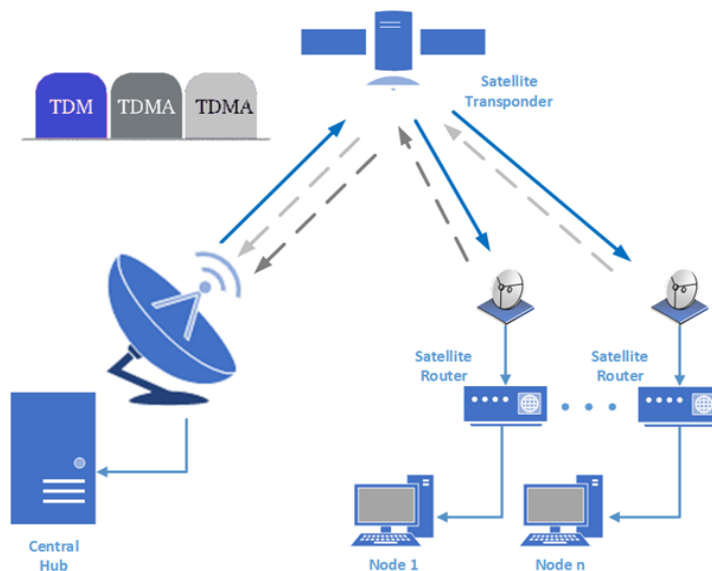
MCPC/SCPC & DAMA SCPC: MCPC/SCPC provides star-base connection access with dedicated bandwidth for every user. Moreover, DAMA SCPC technology is optimized version of MCPC/SCPC by monitoring every user need for traffic and assigning specified bandwidth. This process is done adaptively all the time the network is in operation.
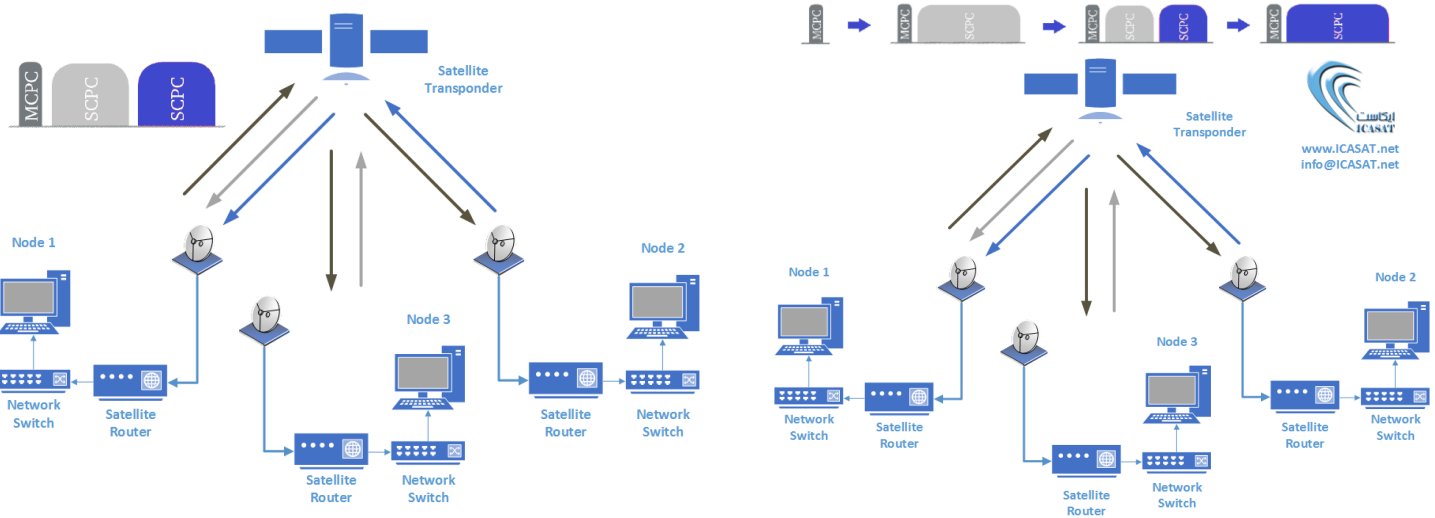

MCPC/SCPC

DAMA SCPC

Mesh network: A mesh network is mainly used for real-time telephony or video-teleconferencing applications. It allows several remote sites (VSATs) to communicate with each other via a single link through the satellite resulting to a minimal time delay between signal transmission and reception due to its "single hop" nature.
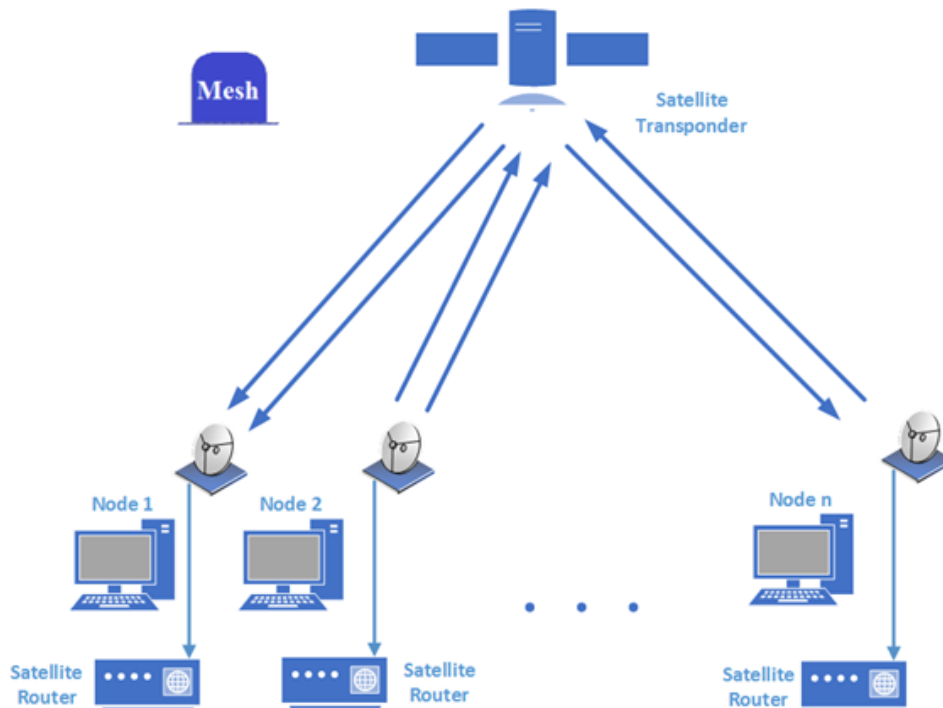
Marine Satellite Communication

The satellite mobile market is changing rapidly. Demand for fixed price broadband services over Deep Ocean is soaring. In an effort to enhance efficiency of shipboard operations, ship owners and managers are implementing new broadband intensive software applications that facilitate fuel optimization, centralization of routine tasks to shore and remote PC Management and Maintenance. Demand for transmission of large files is also rising as ports require more and more information regarding crew and cargo prior to docking. Crew Welfare applications are also a significant driver for the growth of broadband.
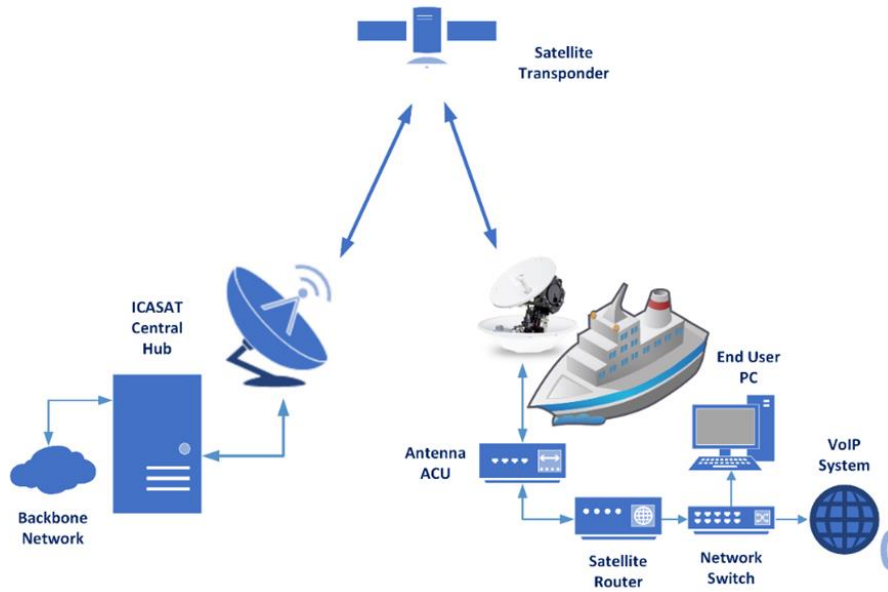
In a market where attrition is high and the cost of training is rapidly rising, Ship Owners and Managers know that such services as low-cost ship to shore communications, cellular aboard ship and transmission of video clips and live and near live entertainment over IP TV increase crew health rates. ICASAT serves multiple types of customers to providing different types of maritime satellite communication services. This service consists very beginning phase of service such as consulting and designing network and value-added services to installing and supporting services. We both install and provide communication and equipment services to maritime relevant market sectors with our high-quality brands like SeaTel, Intellian and KNS. We are official service provider and selling point of KNS antennas for both VSAT and TVRO devices in Iran.

Auto-Deploy Antennas

Auto-deploy systems allows personnel with minimal satellite experience to easily configure and operate the terminal enabling the user to access any broadband application over satellite. Its low stow height and light weight design enables easy installation on a variety of smaller vehicles including SUVs and vans. One-touch antenna controller makes it easy to use and simple to configure. The controller is equipped with a built-in RF Tuner, Compass, GPS, and inclined orbit satellite tracking for precise and flexible positioning wherever you are and whatever vehicle you are in. These types of antennas could bring so much benefit to critical sections such as disaster recovery vehicles, satellite news gathering, crisis cars and SUVs.

*Auto-Deploy Antenna and installed sample on a truck*

ICASAT is also major and official distributor of iNetVu (a C-COM trademark) antenna products. iNetVu brings a tremendous mobile VSAT antennas with fully motorized and auto-acquire features that benefits respective industries.

Flyaway Antennas

When you need quick connectivity in a remote location, station line of portable satellite terminals, is your answer. Whether the mission requires you to drive, fly, walk, or a combination of means, ICASAT flyaway antennas has a portable satellite terminal that will get you on air fast, and reliably within minutes. ICASAT's high-performance flyaway Technology antennas include multiple configurations and designs which give you optimal flexibility while minimizing your investment, reducing necessary training and expanding your communications capabilities.

Video-Conferencing and VoIP

Once satellite network establishes completely, our competitive value-added services including VoIP and video-conferencing solution come over to offer possibility for companies to interconnect their remote branches, resulting in a considerable saving and an efficient control of telephony expenses. Our cutting-edge VoIP devices works well with high latency networks which guarantees best performance for international voice traffic using VSAT systems. Our VoIP solutions may also be designed and installed for off-satellite networks.
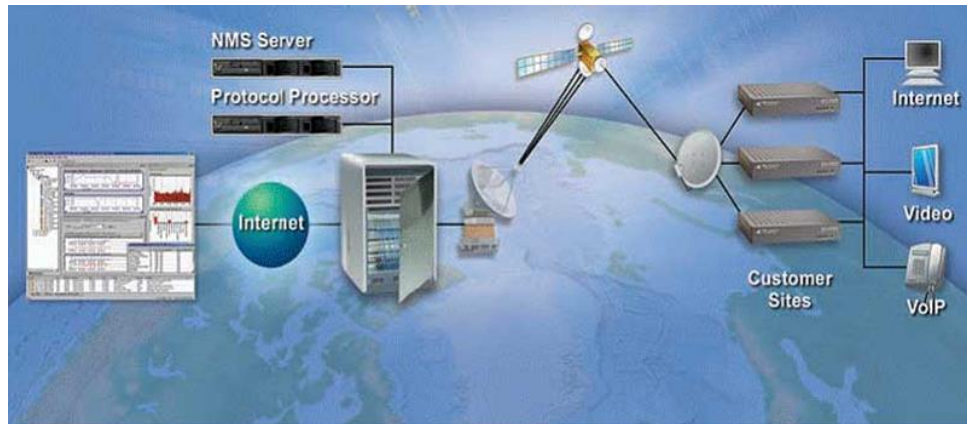
Video-Conferencing Over Satellite

Mobile Satellite Services

Whatever your mission, business, government, military, or aid work, broadband communications are a vital component of your infrastructure. ICASAT offers secure, reliable and portable solutions that provide an instant telecommunications framework that includes Internet access, data transmission, streaming video, voice, email and phone. Our MSS services differs to VSAT networks in variety of properties such as frequency band, end user terminal size, mobility and maximum speed. By partnering with the world's best providers of mobile satellite systems, ICAST delivers a full range of portable satellite solutions and handheld terminals. The service is vital for different sectors for example maritime, oil and gas companies where mobility, ease of access and voice communication stands top priority to all other crew's needs.

One of the most important services that MSS satellites provide to industry, is tracking telematics. With this service every ship on the see and every vehicle on land areas, could be tracked instantly with position given by GPS system. Furthermore, vehicle owners can take over company assets on every place on earth just by checking M2M

database servers through internet. These features provide by ICASAT. Our company equips, installs and services costumers according to their needs.
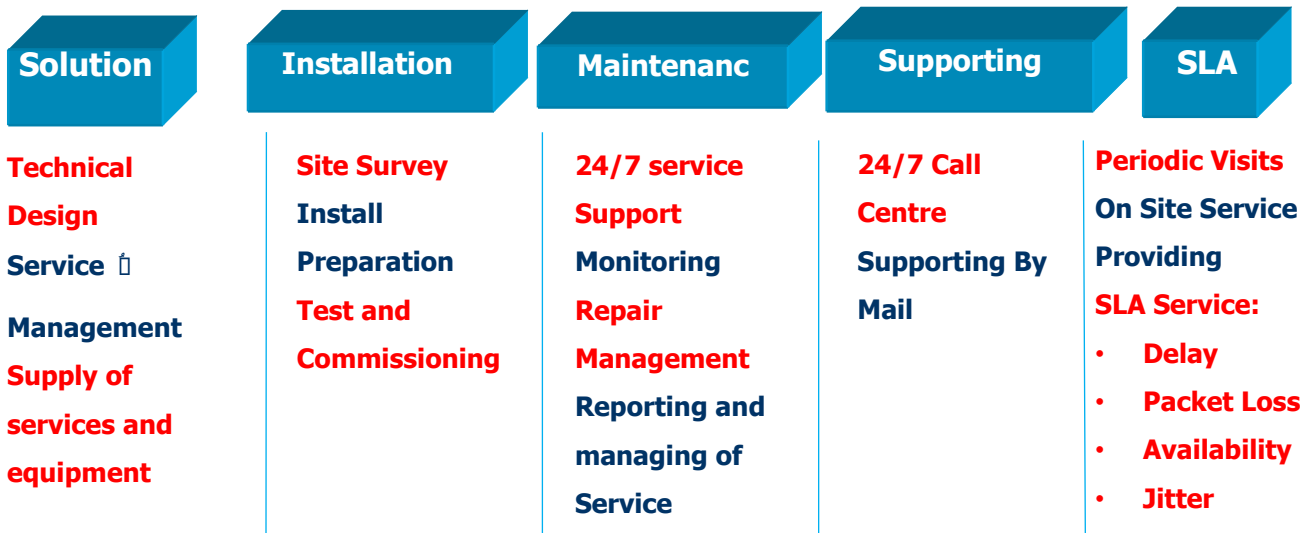
Maintenance and Support Services

The maintenance and support services of this company are provided by the NOC department. NOC staff specializes in iDirect technology, Comtech, Romantis, Newtec, as well as Cisco-based networks specializing in CCNP and CCIE, as well as VOIP and IP-Multimedia. The NOC department is active 24/7 and has contractors and technical representatives in all provinces of the country to provide on-Site services.

SLA+ Plan:

The service level agreement is offered to the customer specifically as part of the SLA + (SLA-Plus) plan. The feature of this plan is that the level of service features such as bandwidth, latency, propagation rate, packet loss, annual service availability rate and Jitter are always maintained. Receive with bandwidth higher than the contract limit and higher than the SLA. For example, a customer with a 512 Kbps bandwidth experience will experience a bandwidth of 768 Kbps or more when using the SLA+ plan when free bandwidth resources are available on satellite hubs.

SUP+ Plan:

The support services of this company are offered specifically in the form of SUP+ (Support-Plus). In this way, support services are offered at different levels. Different levels of support cover the needs of all customers with different levels of expectation. Different levels of support bring the highest level of transparency in granting the customer the right to choose, and the customer can choose the level of support service according to his budget and needs.

Solution	Installation	Maintenanc	Supporting	SLA
Technical Design Service ⬜ Management Supply of services and equipment	Site Survey Install Preparation Test and Commissioning	24/7 service Support Monitoring Repair Management Reporting and managing of Service	24/7 Call Centre Supporting By Mail	Periodic Visits On Site Service Providing SLA Service: • Delay • Packet Loss • Availability • Jitter

Introducing the company's offices and agencies

With the exception of the central office in Tehran, which is the main base, this company in all provinces either has a local office (branch) or has used experienced contractors. Accordingly, we can boldly say that in less than a few hours, the support experts of this company will have access to all parts of the country.

No	Province	Number of Technical Person	Cooperation (Year)	No	Province	Number of Technical Person	Cooperation (Year)
1	Sistan and Baluchestan	2	7	17	Qazvin	5	6
2	Kermanshah	3	11	18	Khuzestan	15	9
3	Kurdistan	1	11	19	Kerman	1	6
4	Ilam	1	10	20	Kohgiluyeh and Boyer-Ahmad	1	3
5	Esfahan	2	11	21	East Azebayjan	1	6
6	Chaharmahal and Bakhtiari	1	7	22	Tehran	30	7
7	Yazd	1	7	23	Fars 2	1	5
8	North Khorasan	1	6	24	Fars1	10	1
9	South Khorasan	1	6	25	Mazandaran	10	3
10	Razavi Khorasan	15	10	26	Alborz	1	5
11	Ardabil	2	5	27	West Azerbayjan	12	10
12	Hormozgan	2	2	28	Zanjan	1	10
13	Bushehr	3	5	29	Semnan	1	8
14	Golestan	1	3	30	Qom	1	8
15	Gilan	5	12	31	Markazi	1	9
16	Hamedan	1	4				

ICASAT facilities and abilities

In addition to providing and installing satellite connectivity services to many VSAT sites for important and large customers, ICASAT deliver different kind of services to multiple vertical market sectors. To access customers to high reliability connection through satellite, the company benefits of 7 5IF iDirect and one Romantis hub stations to access up to 2200 end-user station across the country. Also, the Memorandum of Understanding between ICA Company and Mobinnet Company will provide potential capacity to provide hybrid services, including satellite service, as well as MPLS, TD-LTE, ADSL lines, wireless communications and fiber optics.

ICASAT also prepare bandwidth from advanced and superior satellite transponders in C, Ku and ka bands enabling wide coverage, high reliable and high-speed satellite connectivity to customers. In order to summarize ICASAT satellite network capabilities and facilities, below the main items are listed:

- Up to 7 hub stations incorporating latest advanced SATCOM technologies providing multiple services to more than 2200 VSAT end-user sites
- High speed backbone connection to hub stations through fiber optic, MPLS and ADSL
- Connecting to IRAN internet network with advanced and high-speed communication lines
- Microwave and point-to-point line Of Sight (LOS) equipments
- Network Operation Center (NOC) with 24x7 support and maintenance operation
- Leveraging latest SATCOM technologies in VSAT systems

Full coverage from Europe and North Africa to Middle East regions with high power satellite transponders in C, Ku and Ka. The company succeeded in establishing GSM-Backhaul communication on satellite with innovation in the field of satellite communication and was able to connect the BTS mobile network of remote villages of Chaharmahal Bakhtiari and Isfahan provinces to the central BSC of the province via satellite. As Hamrah Aval Company and Irancell used the successful experience of ICASAT in establishing this connection, they used Satellite GSM Backhaul.

The company introduced an advanced and special type of satellite communication that operates as VSAT Roaming and Teleport Geographical Redundancy, so that a VSAT has the ability to roam between several teleport ports and can be roaming if a signal is not received from one teleport, connect to another teleport.

ICASAT Teleport Features:

➢ Network Operator Center with 24-hour support (ICA NOC)

➢ Use of large Earth Station 3.7M antennas

➢ Using High Power Amplifier 200 Watts completely Redundant

➢ High speed STM1 connection with 155Mbps internet and intranet

➢ Fully integrated and remote management of all network stations

➢ Integrated management of all transmitted and received bandwidth anywhere in the network

➢ Ability to provide Virtual Network Operator services and provide virtual dedicated hubs and networks (VNO / CNO)

➢ Supports all STAR-MESH-Hybrid and SCPC topologies on a single platform (TDM / TDMA)

➢ Support for DVB-S2, bandwidth optimization and ultimate cost sharing (DVB-S2 ACM)

➢ Full Jitter control using Feathering time slot allocation and enhance the quality of voice transmission

➢ Extraordinary reduction of Over Heads in Encapsulation and transmission of IP packets

➢ Using the best and most powerful debugging and correction algorithm in data transmission (2d 16-state Coding)

➢ Ability to define CIR bandwidth as pre-assigned such as SCPC and SCPC-Return service

➢ Ability to allocate CIR bandwidth if a special application such as Voice or Video is activated

➢ Knowledge and experience of working with all technologies of iDirect, Advantech, ND-Satcom, Comtech, …

➢ Three-phase power with generator support with fully automatic panel and three-phase UPS

Experiences and satellite hubs launched:

➢ Two iDirect hubs in ICASAT teleport (ICASAT)

➢ Two iDirect 5IF hubs with Teleport Redundancy feature in Tejarat Bank network

➢ IDirect 1IF hub for a military organ

➢ IDirect 5IF hub in Oman

➢ IDirect 5IF hub in Iraq

➢ IDirect 5IF hub in Pakistan

➢ IDirect Private HUB for the country's customs

➢ IDirect Private HUB for Central Regional Oil Company

➢ IDirect Private HUB for Mobinnet

ICASAT Costumers and Experiences

ICASAT customers comes from a variety of backgrounds and industries. From whichever satellite has usefulness over other methods like in the deep oceans to in the air and rural areas, ICASAT can offer efficient solutions to customers. Satellite, in general, has many applications in today business world and ICASAT has solutions to most of the end-user usage.

Tejarat Bank

The project consists of connecting of more than 1500 VSAT sites in early stages and up to 2000 VSAT stations in recent development of the network. The network will connect the remote clients to the central office with reliable and single-hop connection over the entire IRAN coverage. This will be the best solution offered by ICASAT to help banking and

financial institutes to access account management systems so rapidly and reliably. Central offices located in Tehran and Isfahan, designed to be operated redundant, each equipped with iDirect hub station and DVB-S2/MF-TDMA method access. The network use ARABSAT BADR-5 Ku band transponders to cover the entire IRAN region. Design, Installation and maintenance of the network is done by ICASAT SATCOM experts with the company NOC center. The satellite network connected to the Tejarat private network at the central office with high speed MPLS connections.

NISOC

One of the most important of STCOM applications is to connecting oil digging sites in faraway areas specially located in the seas, like offshore platforms and coiled tubing sites. Remote sites, in this case, must be capable of moving when satellite communication is functioning. The solution will be consisting Auto-Deploy Antennas or in highly dynamic situation Auto-Track Marine antennas. NISOC project that comprises 65 digging remote sites (130 VSAT clients, one for internet and one for internal network of the company in each site) and 25 coiled tubing stations equipped with Auto-Deploy antennas, linked together to a central office located in AHWAZ to access ADSL-like voice and data connections.

NISOC hub antenna and coil tubing site equipped with auto-deploy antenna

For emergency cases, the project includes five disaster relief and emergency recovery vehicles, all of them have satellite connection to central offices to provide health recovery services like VoIP calling and Telemedicine video conferencing. The central office has single iDirect hub teleport designed and integrated by ICASAT.

Rightel

With widespread use of cell phones and data service through 3G\LTE cellular networks even in most remote areas and increasing demand of high-speed data communication services in rural areas, mobile operators consider to take cellular base station away, so an affordable solution should link cell sites to a central gateway. ICASAT provided rightel cellular operator, three 2G/3G station with 1.8m antenna and 8W BUC in Ku band. The network uses iDirect SATCOM technologies with advanced cellular network optimization equipments.

TCI

ICASAT started to backhaul 30 GSM cellular stations of Char-Mahal-Bakhtiari province through satellite communication for Telecommunication Company of Iran. Each site uses iDirect Evolution modems to establish a satellite link with DVB-S2 for outbound and A-TDMA adaptive TDMA multiple access for inbound. For optimizing and minimizing cellular middle layer protocol overhead data, the backhaul equipments use optimum devices. In the TCI switching center, iDirect hub connects cell stations to the national PSTN network as well as optimum resource allocation by DVB-S2/MF-TDMA outbound/inbound channels.

KEPCO

One of the main applications of SATCOM is to connecting overseas vehicle and infrastructures like ships and offshore platforms to the internet and providing voice and video calls. ICASAT designed, installed and offered internet and voice call services to three tanker ship and one offshore platform of KEPCO with 1m SeaTel Auto-Tracking marine antenna due to highly unstable platform satellite antenna needed to established.

SINA Bank

SINA bank linked 15 head of branches of the corporation together by ICASAT teleport installations with dedicated SCPC inbound/outbound channels and iDirect Evolution modems. ICASAT supply satellite bandwidth, VSAT client and hub side modems and other outdoor and indoor essentials.

FPSO

A floating production storage and offloading (FPSO) unit is a floating vessel used by the offshore oil and gas industry for the production and processing of hydrocarbons, and for the storage of oil. This unit is functioning in south-pars oil field and ICASAT provide internet and voice call services to the platform with 2.4m Intellian marine antenna.

IRAN FAJR

The company uses ICASAT marine services consisting Internet, voice call and video conferencing with powerful and industry lead, 1.2m KNS SATCOM auto-stabilized antennas.

ICASAT also offer service to other companies and organizations flexible and advanced VSAT solution. Here other ICASAT customers are informed accordingly.

Mobinnet: Launching an independent 5IF satellite hub network with more than 200 stations

Petropars: Installation of 2 separate networks, MESH-based dedicated network using Datum modems between the headquarters and 2 offshore towers for data and voice communication. And a network for providing Internet on offshore platforms.

NIOPDC (Fuel Smart Card project): connecting more than 500 fuel and gas stations to NIOPDC data center featuring iDirect devices at hub and client sides by ICASAT.

North Drilling Company: Installation of Schlumberger Stabilized SLB-4000 Antenna on Amir-Kabir offshore rig.

ParsGostar Energy Exploration Drilling Co (**PEDEX**): Satellite bandwidth Supplement for drilling sites of this Company with headquarters for more than 5 years.

Institute of Geophysics: costume, satellite-based network design for 20 seismic sites across IRAN country with dedicated hub stations.

Sinopec: Installation of More than 6 points to transmit audio and video data (Video Conference) with (SCPC-SCPC) technology.

West Regional Electric Company: Launch More than 8 points for transfer Dispatching Information with the TDM / MF-TDMA Technology.

Petro-kariz Omide-kish: SCPC service for 3 individual and disperse sites through ICASAT teleport.

NIDC: providing satellite bandwidth from GEO satellite transponder to convey the company data networks.

MAPNA Drilling: providing dedicated SCPC bandwidth communication to ICASAT teleport hub devices to accessing internet data service on ship board.

IOC: Satellite communication of the company's network with 15 points using TDM / MF-TDMA technology

DCI (Drilling Company International): Setting up satellite communication between DCI-1 and DCI-2 towers using marine and fixed antennas

Ghardeshgari Bank: Installation of more than 10 points of Tourism Bank branches for data transfer with dedicated bandwidth

Industry and Mines Bank: Installation of more than 15 points of control centers for data transmission with dedicated bandwidth (MCPC-SCPC)

Ghavamin Bank: Establishing a connection between 5 points for the days of Arbaeen Hosseini to serve the esteemed pilgrims using iDirect technology

POEC & PGFKCO & Petro Service Company: internet connection for fixed VSAT sites.

Other Customers: San'at va ma'dan Bank, Parsian enterprise, Ghavamin Bank, Arak shazand refinery site, IGC Corporation, Schlumberger, Repsol and many other companies.

Water, electricity and energy industries:

Ministry of Energy, Marine Industries of Iran Sadra and Stratus Company, Persian Gulf Electricity Management, Fars Regional Electricity Companies, West Regional Electricity Company, Mahab Ghodsa Consulting Engineers, Abadrahan Pars, Andisheh Pardazan Hamrad and ....

Industries, mines and manufacturing plants:

Joven Cement Development, Energy Industries Design and Engineering, Khorasan Steel Complex, Sugarcane By-Industries Development, Pouya Aluminum City, Plour Mineral Water Industries, Kerman Coal Mines, Sarcheshmeh Copper Investment

Telecommunications and other Iranian companies:

Chaharmahal Bakhtiari Province Telecommunication Company, Khorasan Razavi Telecommunication Company, Islamic Republic of Iran News Agency, Gold Technology Pioneers, Gilan Sabz Cement, Road Shed, Jahanpars Building, Tehran Shineh

Foreign companies:

Oil Companies: OMV, PTTEP, TOTAL, Stat Oil, Sinopec, Schlumberger, Repsol

Others: Toyo, Future BANK,Nestle