

Satellite Network and Services



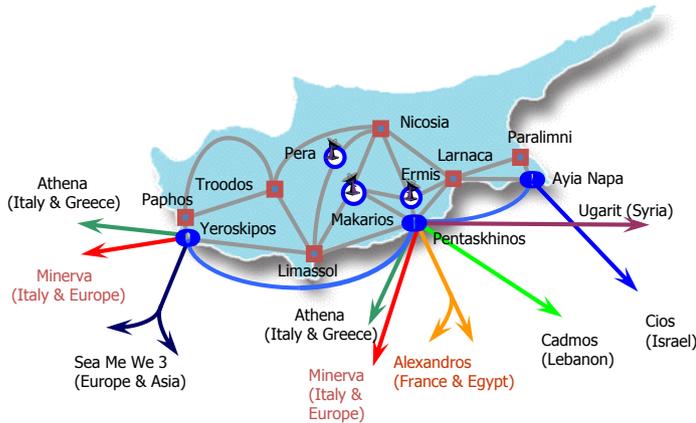
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From East to West we keep you in touch

Satellite Network

Cyta, the dominant telecommunications provider in Cyprus, has multiyear experience in satellite communications. Our satellite network provides enhanced international connectivity with global reach. We own and operate three teleport sites, Makarios, Ermis and Pera. Makarios is the primary Teleport while Ermis and Pera are used for enhanced availability services and disaster recovery purposes.



Makarios Teleport

Makarios is an established teleport site that has been in operation since 1980 and it's fully certified by the World Teleport Association (WTA) at Tier-3 level. The Teleport offers proximity to the island's main towns, seaports and airports and is fully supported by all Public Utilities. The facility is well connected with Cyta's national and international fiber networks providing ample capacity with diverse and resilient links to major international nodes.

Geographic Location and Climate

The position of Cyprus in the eastern Mediterranean is a privileged location for satellite communications. Our facilities offer full visibility of the geostationary arc, covering any satellite location between 33,5°W and 100,5°E with elevation angles greater than 10°. The climate in Cyprus offers extensive sunshine, low rainfall and mild temperatures and is ideal for satellite operations.

Interference free Environment

Makarios Teleport is conveniently located in a protected valley and operates without restrictions related to the use of frequencies in satellite or terrestrial bands. The utilization of satellite frequencies is uninhibited and not subject to any restrictions by the Regulatory Authorities. Furthermore, Cyprus is an island and enjoys complete isolation from emissions in other countries. The absence of electromagnetic interference is verified by detailed site surveys conducted at regular intervals.

Experienced and qualified Personnel

The Teleport is manned on a 24 hour basis by qualified personnel with the training and experience to support a diverse range of satellite communications systems and services. A manned security system ensures the safety of the operators and equipment at the site on a 24 hour basis.

Equipment and Supporting Infrastructure

Makarios Teleport is fully equipped to provide a wide range of satellite services, tailor made to the requirements of our customers. Modern buildings house the earth station equipment and associated subsystems. Additional space is dedicated for service monitoring, office space for personnel and for auxiliary support systems.



Makarios Teleport hosts a large number of earth stations that provide links to numerous satellites, supporting Cyta's extensive satellite telecommunications network. There are transmit antennas operating in most satellite frequency bands, such as C, S, Ku standard and extended, DBS and Ka band. In addition, the Teleport offers extensive reception capabilities with a large antenna farm deployed to receive content from the main satellites visible from Cyprus.

Satellite Services

Our efforts are focused in providing reliable solutions and building long-term relationships. Our broad experience in satellite communications and our extensive satellite network enable us to provide a wide range of satellite services, tailor made to the requirements of our customers.

Gateway Services

Our Teleports host and support satellite operations for years. One of the core products we offer is gateway services to modern broadband satellites. Cyta's extensive teleport capabilities are bundled with the diverse international fiber links to establish major gateways to High Throughput Satellites (HTS) that offer broadband services in selected regions around the globe. Our capabilities include Teleport diversity to overcome rain degradation and facilitate enhanced service availability.



Teleport Hosting

We offer to our business partners the capability to host equipment at our Teleports to facilitate the provision of satellite solutions. Dedicated secure areas with support facilities and regulated access are provided. We can also integrate the hosted equipment with our satellite and fiber network and provide the operational support to ensure that a reliable full-functioning system is established.

TV Services

Cyta offers satellite TV services to the international market through its subsidiary company Iris. Iris's main products include satellite broadcasting on multiple satellites covering Europe, the Middle East and Asia. Iris also offers occasional services, dedicated satellite links for broadcasting and distribution and hybrid solutions with a combination of fiber and satellite means.

Content Aggregation

Our Teleports serve as satellite content collection nodes for our customers and for Cyta's IPTV service. This includes reception of hundreds of TV channels from numerous satellites using a large antenna farm that can provide visibility to most broadcasting and contribution satellites covering our region. The content is transcoded as needed and is fed to local and international nodes for OTT and other means of distribution.

Space Segment Capacity

We provide and resell space segment capacity on various satellites, worldwide.



Hybrid Services

We can extend our satellite connectivity options through our extensive international fiber network in order to provide integrated products and solutions that suit the requirements of our customers. We can serve our satellite customers under a single hat and offer dependable terrestrial connections at various Telehouses in Europe and beyond.

VSAT Services

VSAT links enable instant connectivity to remote regions around the globe and offer modern communications solutions. We offer reliable services with small and low cost terminals. Field support is provided in association with specialized partners.

Satellite Control and Monitoring Services

We support satellite operators in satellite ranging and control. These are critical functions demanding high availability and reliability. Our supporting services include monitoring tasks to ensure smooth satellite operations and customers' compliance to the terms of their leases. We also verify the quality of satellite transmissions and identify any sources of unauthorized emissions.



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