GOVERNMENT

MARITIME

ENERGY

ENTERPRISE

AnsuR Asmira

Video Compression & Streaming

Video
Streaming

Compression &
Optimisation

THURAYA

About AnsuR

For many radio and satellite networks, smaller bandwidths limit the value of remote high-resolution image sensors.
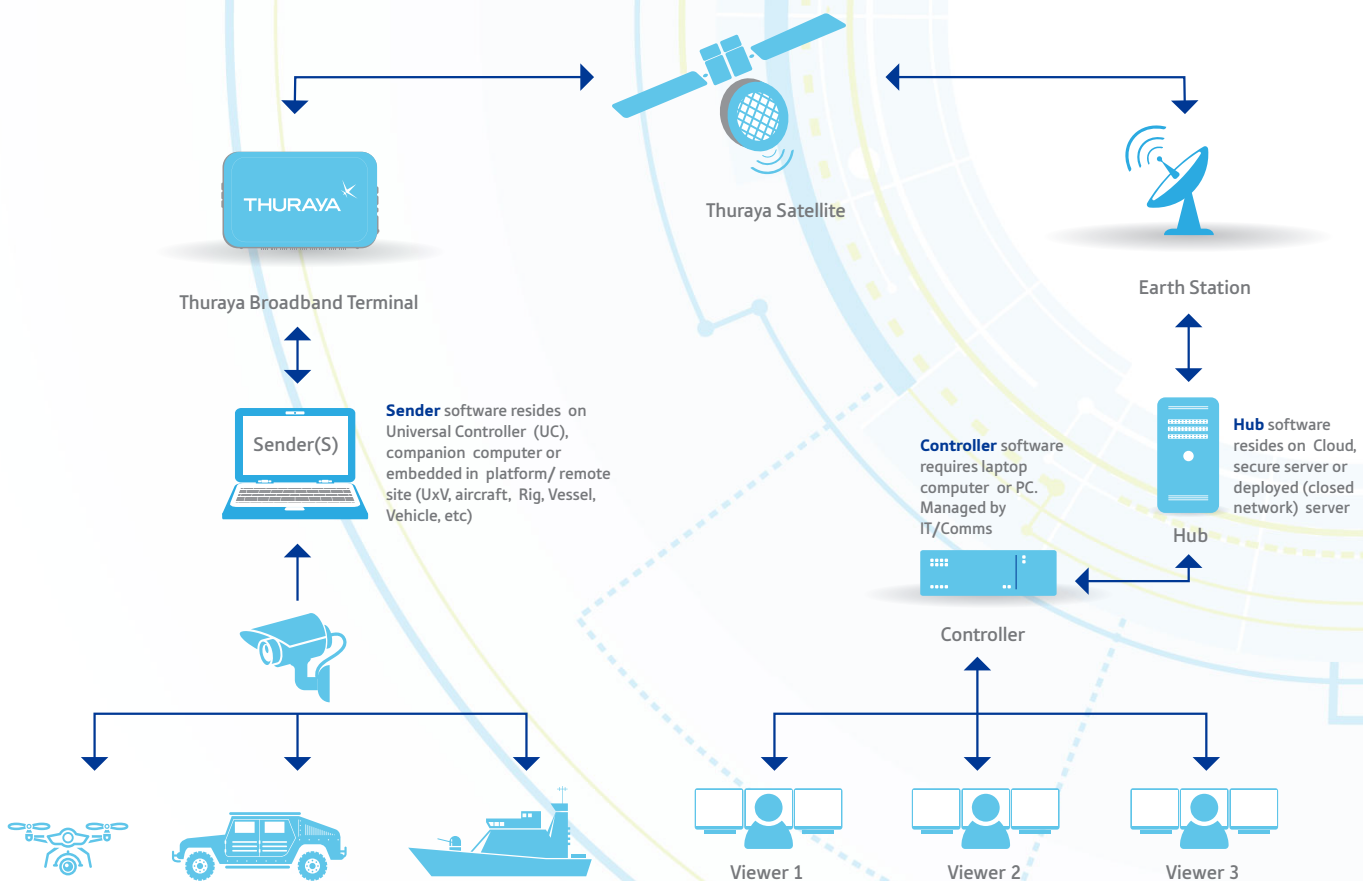
AnsuR creates innovative software solutions for communicating high-precision photos, video clips and video streaming with exceptionally low bandwidth use. With the aim to solve the challenges of high-resolution multimedia communication over unknown, bandwidth-limited networks, AnsuR develops the most efficient software solutions for visual data communications.

ASMIRA

Real-time high precision video streaming using low bitrate is a fundamental challenge. Such challenges are present in several mission-critical situations where visual situational awareness is needed via bandwidth-limited networks, including mobile satellite networks. To solve this issue, AnsuR has developed ASMIRA.

How does it work?

ASMIRA is a Software package that can easily connect to any Thuraya broadband terminal with minimal configuration and can stream good quality video at low data rates (100 kbps for example), , thus making it useful for streaming over Thuraya's L-band mobile satellite services (MSS) network and unmanned aerial vehicles (UAVs). With ASMIRA, the receiver of the data controls how the video is sent, and one can change parameters such as bit rate, frame rate and resolution at any time. There are modes for fixed rates and unknown network rates. It is also possible to focus the capacity on certain regions of interest to allow more precision for the given region.

Thuraya Satellite

Thuraya Broadband Terminal

Earth Station

Sender(S)

Sender software resides on Universal Controller (UC), companion computer or embedded in platform/ remote site (UxV, aircraft, Rig, Vessel, Vehicle, etc)

Controller software requires laptop computer or PC. Managed by IT/Comms

Hub software resides on Cloud, secure server or deployed (closed network) server

Hub

Controller

Viewer 1

Viewer 2

Viewer 3

THURAYA

Benefits

- Network agnostic, software solution enabling Video Streaming from remote sites and platforms
- No requirement for guaranteed QoS Connection
- Improved quality over pure compression
- HD quality video at low data rate
- Increase operational responsiveness decrease response time
- Ability to focus capacity on specific regions of interest (object/area)
- Pull region of interest (ROI) in higher resolution as required
- Enables the efficient use of bandwidth
- Optimizes video for low date rate transfer
- Runs on a PC or embedded into a platform unmanned, manned including Aircraft, Ships and Vehicles
- Real-time content of critical and relevant visual information for rapid decision-making

Use Cases

- Special Operations
- Intelligence, Surveillance and Reconnaissance (ISR)
- Border Monitoring and Control
- Critical infrastructure and perimeter security and safety
- Coast Guards
- Energy/ Oil and Gas

ASMIRA offers substantial benefits when communicating video from remote platforms like ships, planes, drones or during crisis situations when there are connectivity and capacity challenges.

The ASMIRA solution through service partners is available through Thuraya's service partners. Activation of subscription can be done on a monthly or annually basis to simplify management of the service.

Thuraya broadband terminals certi¬fied to work with AnsuR ASMIRA

Thuraya IP Broadband Data products

Support

For help and support, please contact:
Thuraya: customer.care@thuraya.com