



UTEC

# REMOTE PROCESSING, REMOTE OPERATIONS, AND REMOTE MONITORING

UTEC has developed a communications hub (comms hub) to provide the connectivity required for successful delivery of any type of remote service for nearshore and offshore to reduce the cost and complexity of construction, operation, and maintenance for energy operators.

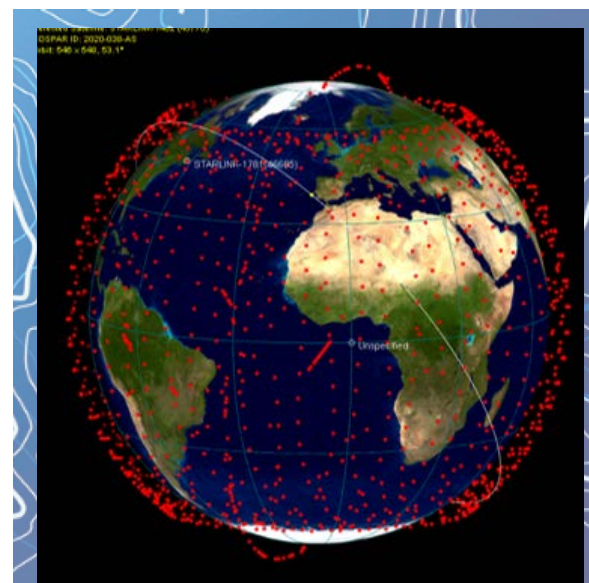
The comms hub is a unique solution that links the two endpoints with a sophisticated protocol meaning that it comprehensively combines features like network acceleration, bonding, network resilience and sophisticated security.

It has been designed as one standard piece of hardware which has the flexibility to deliver any or all three areas of remote survey services simultaneously. Data is brought ashore securely and efficiently in close to real-time, whilst being extremely efficient in its use of bandwidth, be it VSAT, LEO or 4G, all of which can be bonded together by the comms hub.

UTEC has acquired their first StarLink Maritime system. In addition to independent communications for UTEC and increased bandwidth, a key benefit of LEO satellites versus VSAT systems is the low latency connectivity that the Starlink provides. This opens the opportunity for running applications that are not possible over VSAT.

## The comms hub provides:

- **Network resilience:** Full utilisation of all bandwidth with no packet loss or WAN delays.
- **Sophisticated security:** The comms hub uses pre-shared key (PSK) authentication. PSK information is combined with dynamically generated information at call setup and this combination acts as a seed for the encryption algorithms, resulting in encryption being unique to every connection made by the comms hub.
- **Network bonding:** Use of bandwidth from multiple internet connections at the same time through network bonding.
- **Automatic file transfer:** During survey data acquisition, software running on the comms hub detects new files and transfers them to an onshore data centre in close to real-time.
- **Optimised H.265 video streaming:** The maximum achievable bit rate can be automatically selected based on available bandwidth.



StarLink Constellation - Today



MBES data



DATA AND ROBOTICS



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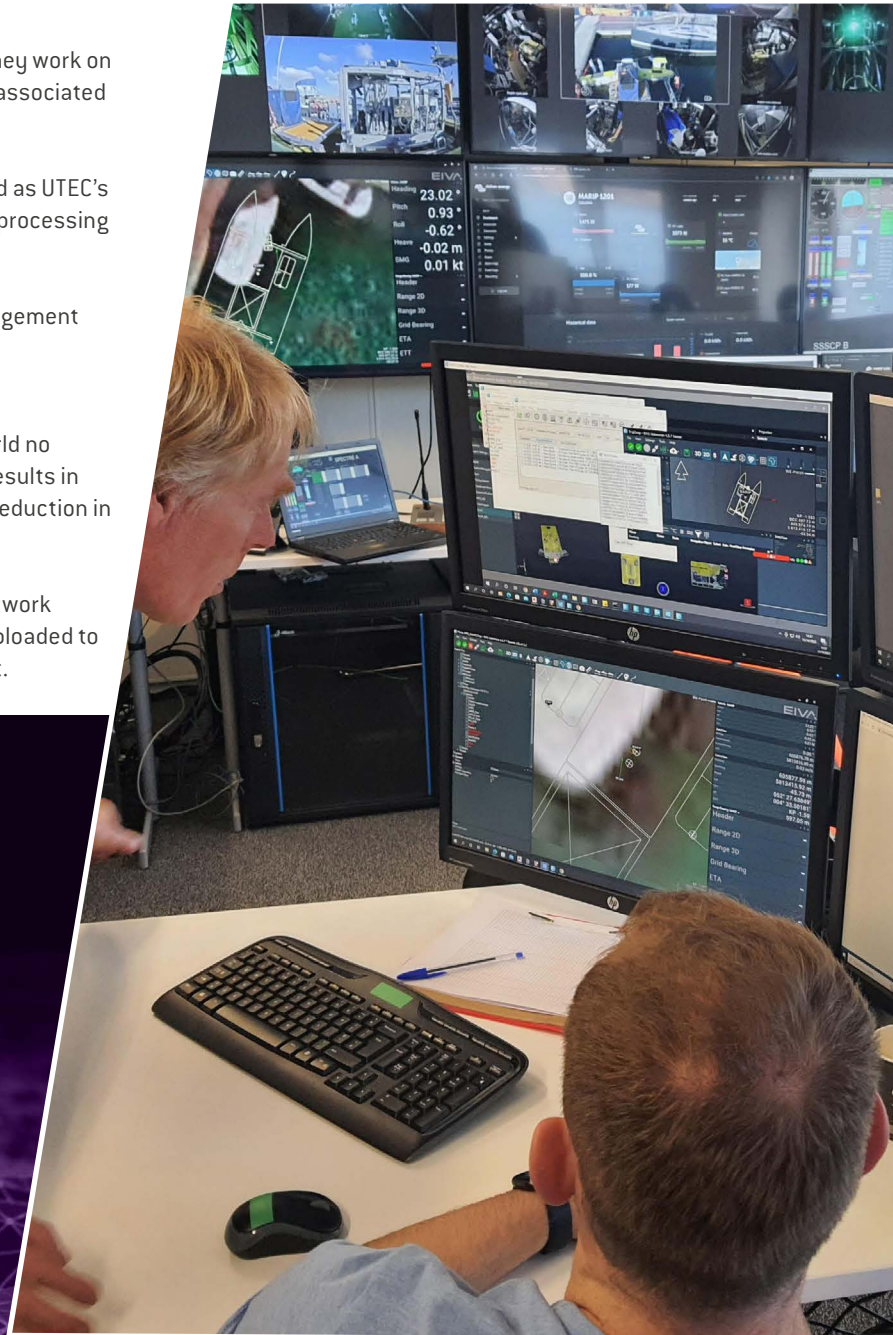
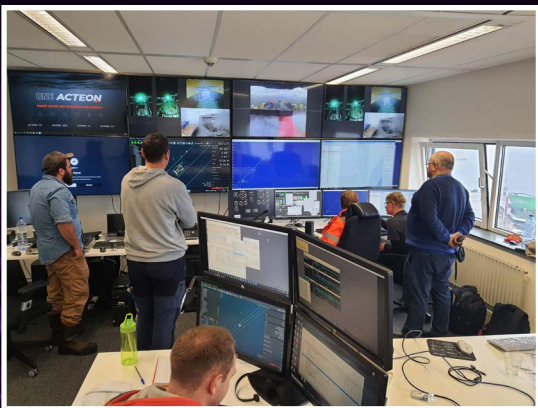
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# UTECH

## Benefits of remote services:

- Only pay for data processing personnel for the time they work on the data, and not the mobilisation and stand-by time associated with utilising offshore personnel.
- No additional equipment or software licenses required as UTECH's remote data processors can access centralised data processing resources remotely.
- Data is made available onshore immediately for management review to assist with any critical decisions related to operations.
- The data processor can be based anywhere in the world no matter where the operations are taking place which results in reduced HSE exposure, time and cost savings, and a reduction in carbon footprint.
- The comms hub interfaces to the on-board survey network system allowing survey data, including video, to be uploaded to the cloud in real-time with minimum user involvement.



## OPTIMISING DATA EFFICIENCY



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