



Telenor Satellite Broadcasting reaches for the stars with eCentre

Background

Telenor Satellite Broadcasting (TSBc) is a major European provider of satellite communication services for customers in the broadcast, maritime and oil and gas markets.

As owners and operators of the THOR satellite fleet, TSBc provide high-powered and high-quality satellite capacity throughout Europe, the Middle East and Africa. With the launch of their latest THOR 7 satellite, TSBc are looking to expand their geographical coverage in the strategically important EMEA market and provide much-needed growth capacity for their broadcast and enterprise customers.

The Challenge

In the maritime and offshore markets where satellite is often the only available communications medium, service reliability is crucial in supporting mission critical business operations and safety-related applications.

Therefore, in order to ensure the highest possible performance – including teleport availability in excess of 99.9% – TSBc needed to invest in a package of solutions to mitigate rain-fade on THOR 7's new HTS Ka band services, including the establishment of a new secondary uplink facility to provide antenna site diversity.

“The launch of THOR 7 is one of the most significant milestones in our company’s history. As such, we needed to be sure that all of our partners contributing to this project are truly world class, and Flexenclosure comfortably fits that profile.”

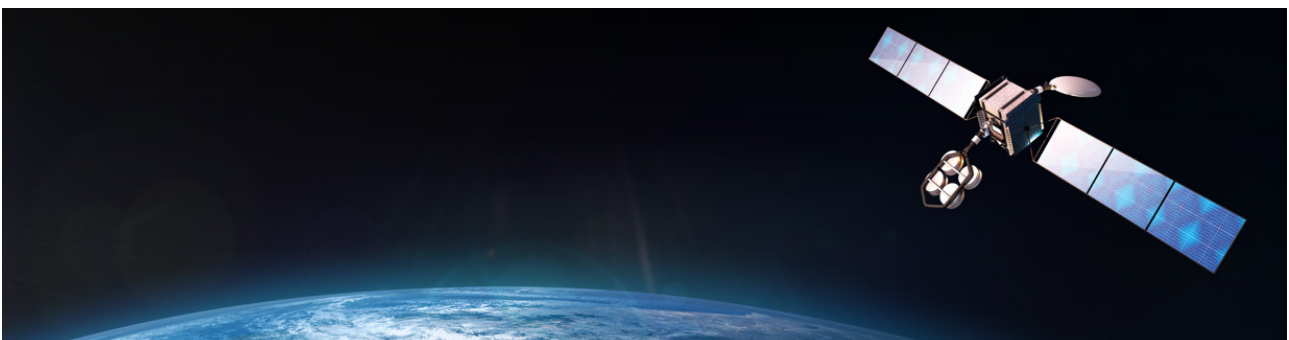
Jan Hetland,
CTO Network and Data Systems, Telenor Satellite Broadcasting

The Solution

Flexenclosure’s eCentre was chosen to house this vital new diversity gateway antenna system. Built to last the lifetime of the THOR 7 satellite, it was manufactured at Flexenclosure’s factory in Vara, Sweden and then transported to Hønefoss, Norway, for final installation and commissioning.

The facility consists of a 42m² IT and equipment building containing radio frequency and terrestrial interface equipment connected to a 9m antenna. There is also a separate 10m² energy centre, including a power generator and connection to the grid.

The station is fully remotely operated and will be used during heavy rainfall at the primary gateway at Nittedal Teleport near Oslo, and as a backup station during primary site maintenance.



The Flexenclosure Advantage

By working with Flexenclosure, TSBC were able to capitalise on a number of significant eCentre differentiators:

- Maximum preparation and testing in the factory in Sweden ensured the extreme level of quality and reliability required of this mission critical facility.
- The eCentre includes free air cooling technology, providing TSBC with a highly energy efficient communications centre. Compared with traditional cooling solutions, free air can reduce cooling equipment electricity consumption by more than 60%.

- Flexenclosure managed the manufacture, transportation and installation of the eCentre as a full turnkey project, customising both the equipment room and energy centre to precise TSBC requirements.

And with extensive experience deploying prefabricated data centre and technical facilities in the most challenging environments in over 50 countries, Flexenclosure is always able to bring creative ideas, fully tested solutions and total peace of mind.... fast.

“We needed a fully customised, high-end turnkey solution in a short timescale. Flexenclosure delivered on all of these requirements, confirming that we’d made the right choice in eCentre for this element of our THOR 7 programme.”

Jan Hetland,
CTO Network and Data Systems, Telenor Satellite Broadcasting

