



Broadcast Services at 1° West

Leading broadcast service provider across
the Nordic region and fastest growing
hotspot in Central & Eastern Europe

telenor | satellite

Telenor Satellite

Telenor Satellite is a premium wholesaler of satellite services across Broadcast, Data Services and Occasional Use.

From our prime position at 1° West we provide more than 1,000 broadcast services to 18 million homes in the Nordics and Central & Eastern Europe. We also provide occasional capacity and transmission services for news, sports and special events on a global basis to 480 broadcasters. Our Maritime Data Services sees us partner with 70 carefully-selected VSAT resellers to service over 1,000 vessels across EMEA.

Broadcasting From 1° West

Telenor Satellite provides secure, flexible and reliable distribution of direct-to-home (DTH) satellite television, delivering content to audiences throughout Europe.

Our comprehensive portfolio of services covers the entire distribution process: encoding, multiplexing, uplinking, satellite capacity and monitoring during transmission – as well as contribution services via our own fiber network, Multi-Service-Network (MSNW).

800 TV Channels 222 HDTV Channels 18 Million Households



Telenor Satellite prides itself on being at the cutting edge of innovation in European satellite broadcasting. We provide high-quality satellite capacity and optimised coverage for DTH platforms.

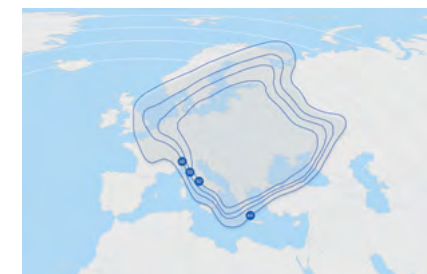
In a fast-changing communications environment, satellite continues to play an important role in the distribution of content. Satellite is a first class platform for delivering new bandwidth-hungry TV applications such as HDTV and Ultra HD.

Our video neighbourhoods have been designed to provide enhanced coverage areas for our broadcast customers.

We provide a flexible and diverse satellite platform which allows customers to reach audiences in their target areas through our THOR fleet. It is an extremely reliable DTH platform used by Canal Digital, UPC DTH, Focus Sat, DIGI and Slovak Telekom.

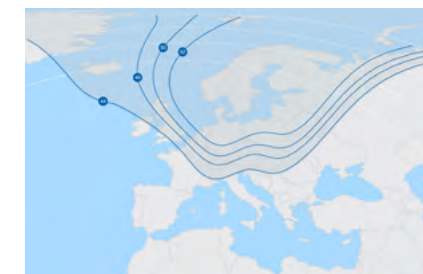
Central & Eastern Europe Video Neighbourhood

1° West is one the fastest growing DTH platforms within Central and Eastern Europe (CEE) region, reaching close to 10 million households. The CEE neighbourhood gives customers guaranteed coverage and high availability through the combined coverage of multiple satellites in the THOR fleet.



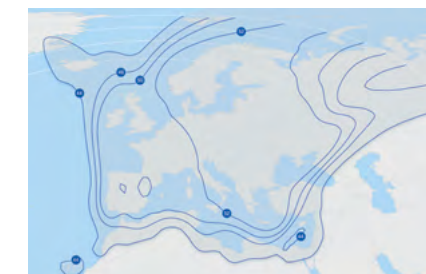
Nordic Region Video Neighbourhood

1° West is the leading DTH platform in the Nordic region. The Nordic neighbourhood gives customers guaranteed coverage and high-availability through the combined coverage of multiple satellites in the THOR fleet.

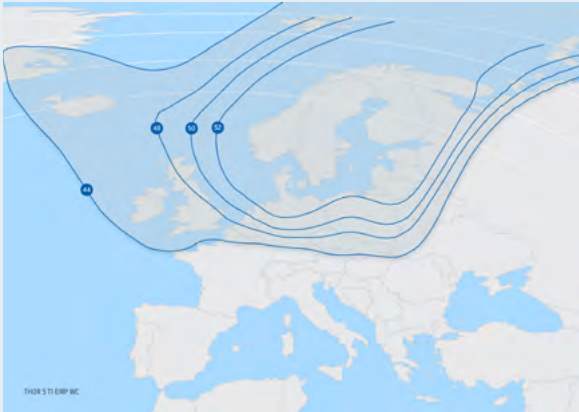


Pan European Region Video Neighbourhood

The 1° West platform provides extremely reliable transmission for both DTH and DTC broadcasting. The Pan-European coverage offers broadcasters access to the whole of the European continent and to the 18 million households that receive TV channels from 1° West.



Our Broadcast Fleet



THOR 5 T1

Target Area	Nordic Region
Transponder Capacity	FSS
Transponder Bandwidth	27 MHz
Transponder Content	Digital TV/Radio
Uplink Frequency Band	13.00 - 13.25 GHz
Downlink Frequency Band	11.20 - 11.45 GHz
Polarisation Downlink	Linear
Orbital Position	1° West



THOR 5 T2

Target Area	Pan-European
Transponder Capacity	BSS
Transponder Bandwidth	33 MHz
Transponder Content	Digital TV/Radio
Uplink Frequency Band	17.30 - 18.10 GHz
Downlink Frequency Band	11.70 - 12.50 GHz
Polarisation Downlink	Linear
Orbital Position	1° West



THOR 6 K1

Target Area	Nordic Region
Transponder Capacity	FSS
Transponder Bandwidth	27 MHz
Transponder Content	Digital TV/Radio
Uplink Frequency Band	12.75 - 13.00 GHz
Downlink Frequency Band	10.70 - 10.95 GHz
Polarisation Downlink	Linear
Orbital Position	1° West



THOR 6 K2

Target Area	Pan-European Coverage
Transponder Capacity	BSS
Transponder Bandwidth	33 MHz
Transponder Content	Digital TV/Radio
Uplink Frequency Band	17.30 - 18.10 GHz
Downlink Frequency Band	11.70 - 12.50 GHz
Polarisation Downlink	Linear
Orbital Position	1° West



THOR 7 Ku-Band

Target Area	Central & Eastern Europe & Nordic Coverage
Transponder Capacity	BSS
Transponder Bandwidth	33 MHz
Transponder Content	Digital TV/Radio
Uplink Frequency Band	17.30 - 18.10 GHz
Downlink Frequency Band	11.70 - 12.50 GHz
Polarisation Downlink	Linear
Orbital Position	1° West

Support From The Ground



Telenor Satellite's extensive investment in uplink facilities and associated infrastructure means that we are well-equipped to offer our customers excellent ground-based services from our teleport.

Our main teleport just outside Oslo/Norway, Nittedal Teleport, has more than 40 antennas that can operate on satellites in the viewable arc from 45° West to 66° East (one third of the world's communication satellites). Nittedal Teleport's 24-hour Network Operation Center (NOC) combined with our baseband capabilities complements our broad-reach satellite capacity.

The teleport facilities boast a large portfolio of services including encoding and multiplexing, IP streaming and full turnaround solutions. From our prime 1° West orbital position we deliver more than 800 standard-definition (SD) and 222 high-definition (HD) channels via DTH satellite television and 50 radio stations using DVB technology.

In the Nordics we provide technical service for the delivery of over 400 Cable and IPTV services, 150 Live Web TV services and technical capabilities for multi-platform distribution.

Multi-Service Network

Seamless fibre contribution network

Our very own Multi-Service Network (MSNW) is a core video fibre network interconnected to our satellite uplink stations in Europe, and designed to provide enhanced scalability and redundancy, including TV, radio and data.

Customers can connect to the MSNW at a location of their choice to distribute their services over the 1° West platform. Customers can also connect to other providers through MSNW. All content is protected as it travels through individual virtual tunnels.

The MSNW also provides possibilities for the restoration of services via our teleports, which are connected to the network, thereby enhancing the already excellent reliability of our 1° West platform.

Occasional Use



“The fastest, friendliest, most efficient booking service in the business.”

Customer Survey 2017

Whether you need to get a live transmission out of the remotest part of Alaska or simply deliver live content from a sports stadium, Telenor are here to help with all your OU transmission needs.

From pre-planned events to last-minute news bookings, whether you need 3MHz for news or 54MHz for UHD, Telenor OU will source occasional capacity for your requirements.

In addition to our own dedicated THOR 10-02 at 1° West, by working with our valued partners, SES, Eutelsat, Intelsat, Telesat, Hispasat and Asiasat, the Telenor OU team can provide satellite solutions for any project globally.

Telenor's current customers include:



Occasional Use Services

- > 15 minute bookings to monthly leases
- > 3MHz up to 72 MHz slots
- > 24/7, 365-days-a-year booking service
- > 24/7 technical support
- > Fast, efficient and friendly booking service
- > Bespoke transmission plans
- > Highly skilled support engineers
- > Global satellite capacity
- > Global Teleport facilities

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