

# W3C @ 16° East

## NEW CAPACITY FOR EUROPE, AFRICA AND BEYOND

### INCREASING CAPACITY AT 16 DEGREES EAST

Eutelsat's new W3C satellite, scheduled for launch in October 2011 will provide significant new capacity for broadcasting, telecommunications and broadband services.

W3C will replace existing Eutelsat satellites at 16 degrees East. This is a leading position for broadcast markets in Central and Eastern Europe, and also provides video services to the islands in the Indian Ocean.

16 degrees East is one of Eutelsat's most long-standing orbital locations, as satellites have been in service there continuously since 1988. Over more than two decades, it has developed into one of the company's largest video locations, with more than 400 channels broadcast to an audience of over 11 million households. Markets in the areas served by 16 degrees East have been experiencing solid growth, particularly in Central and Eastern Europe.

### KEY MARKETS

- Central/Eastern Europe
- Indian Ocean
- North Africa
- Sub-Saharan Africa
- Middle East

The availability of W3C will significantly increase capacity at 16 degrees East. The satellite will have four main coverage zones:

- high-power Ku-band coverage of Europe with a beam centred over Central Europe, particularly optimised for Direct-to-Home (DTH) reception in this region
- extensive coverage across Extended Europe, including North Africa, the Middle East and Central Asia, via a Ku-band beam optimised for professional video links and data networks
- Ku-band coverage of Sub-Saharan Africa and Indian Ocean islands for regional telecommunications and internet services.

Interconnection with Europe will also be possible with the African coverage through a combination of Ka-band frequencies in Europe and Ku-band frequencies in Africa

- a high-power Ku-band beam over Madagascar and the Indian Ocean Islands for DTH applications

W3C is based on the Thales Alenia Space Spacebus 4000 platform and will have a scheduled in-orbit life of more than 15 years.

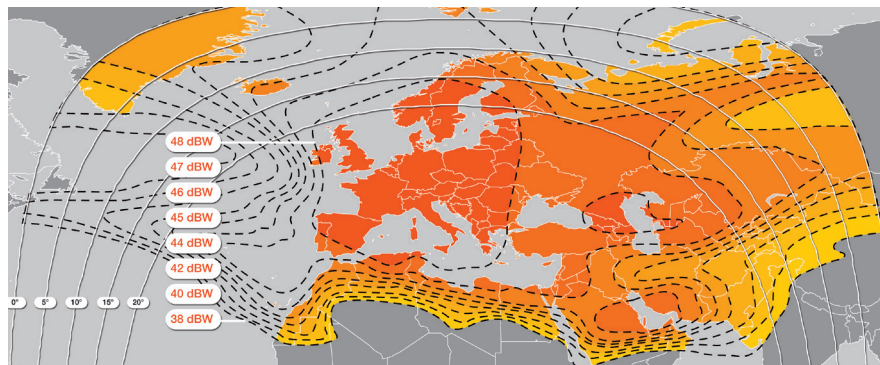
### KEY SERVICES

- TV and radio broadcasting
- Professional video applications
- Data networks
- Internet applications

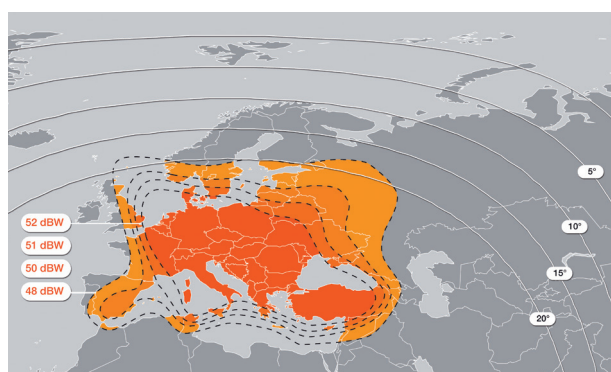


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communications via satellite

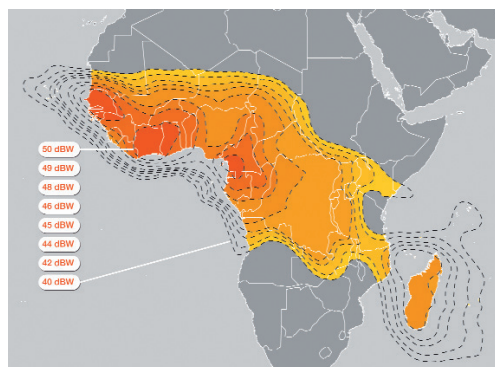
# COVERAGE MAPS AND SATELLITE INFO



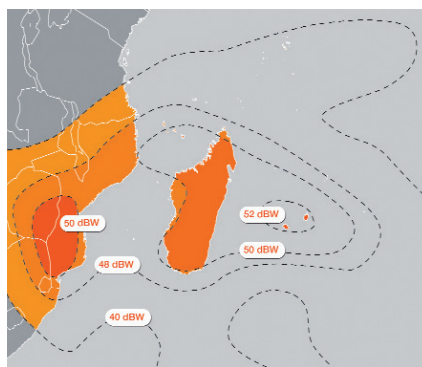
Predicted Europe A downlink coverage



Predicted Europe C downlink coverage



Predicted typical Africa downlink coverage



Predicted typical South-East Africa / Indian Ocean downlink coverage

Satellite manufacturer:	Thales Alenia Space
Downlink frequencies:	10.70-11.70 GHz, 12.50-12.75 GHz, 21.40-22.00 GHz
Transponder bandwidth:	36 MHz, 54 MHz, 72MHz and 108 MHz
Launch date:	Fourth quarter 2011
Launcher:	Long March
Orbital position:	16 degrees East
Operational channels:	> 50
Design lifetime:	> 15 years

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