



Globecast Australia upgrade with Newtec DVB-S2

Globecast Australia's Sydney Broadcast Operations Centre has announced new services for clients who are uplinking and down linking HD program content. Newtec, with their Australian partner Lumina Broadcast Systems Australia Pty Ltd, worked with Globecast Australia to design and deliver a flexible and cost effective uplink system.

The Newtec/Lumina installation is part of a massive upgrade of the GlobeCast Australia Master Control and Teleport, to cope with current and forecast demand. The Master Control itself will double in size in 2009.

"Globecast Australia presented the Newtec technical team and Lumina Broadcast Systems with this interesting DVB-S2 project and we have been able to provide an excellent technical solution", said Peter Warren, Lumina's General Manager/Sales and Marketing.

Globecast Australia chose Newtec's AZ110 Modulators, and AZ750 Combining Upconverters to create a facility that offers full flexibility for any scenario that could potentially be requested by clients.

Newtec and Lumina Broadcast Systems delivered a system for AsiaSat 2 that is capable of single, dual, triple or quad carrier operation and can be individually driven from a purpose built graphical interface in GlobeCast Australia's Master Control. Any combination of these carriers or their committed sum bandwidth on satellite can be manipulated at the touch of an onscreen button to engage single or dual carrier operation for up to 36MHz of High Definition broadcasting.

Newtec's Azimuth AZ110 DVB-S2 modulation schemes and 8PSK assist the commitment towards High Definition delivery with maximised video bit-rates becoming a reality on the new AS-5 satellite, due to launch later in 2009.

GlobeCast Australia Director of Engineering Peter Booth says: "The result for us is interference-free combining of multiple carriers, low losses and minimal spectral regrowth, all major implications when combining signals of varied amplitudes for diverse transponder loading on the same satellite."

Newtec offered GlobeCast Australia the complete system and their approach to addressing their client's needs and tailoring the product base for a multitude of applications was unique to them. "With a Rolls Royce quality and build, we tailored a price that was very competitive," Mr Warren said

Mr Booth continues: "For modulation of all five channels we chose the Newtec Azimuth AZ-110 with BISS injection, critical for our ASI turnarounds from satellite. This enables us to add encryption to an incoming signal without de-encoding and re-encoding, saving vital seconds on the broadcast, reducing equipment count as well as maintaining high quality.

"Running at up to 45Mbaud in DVB-S2, it's capable of doing what we ask of it, both for SD and HD broadcasting. Wrapped around the modulators is the Newtec Azimuth AZ-270 auto sensing redundancy controller, which takes complete control over monitoring the health of the modulator and incoming signal. The redundant backup modulator will take over in what is effectively a seamless operation to the end viewer."

"The task of combining up to four signals was the key issue for GlobeCast Australia Teleport Engineer Jonathan Garratt and our engineering team" says Booth. "Using his previous knowledge in dealing with some of the world's largest earth stations, Jonathan opted for an L-Band combining system, the Newtec Azimuth AZ750. It is robust enough for us to maintain a constant four carrier operation and flexible enough to allow us access to the complete satellite payload across all

transponders. We do this without step frequency limitations often prevalent when facilities choose to reduce cost by stepping up from standard 70MHz modulators to C or KU band SHF directly. Using L-Band means we save money on converters and have total flexibility as we add our second, third and fourth carriers.

“By carefully choosing the equipment and designing our system with constant re-evaluation, we have created a high end system with a significant cost reduction over alternative options. We did that without compromising our facility, in fact quite the opposite,” Mr Booth said.

About Globecast Australia (www.globecast.com.au)

GlobeCast Australia is a member of the GlobeCast Worldwide Group. We are the leading provider of services for International Broadcasters in Australia, New Zealand and the Pacific Islands, operating facilities and links that span the World.

GlobeCast Australia's main services include Direct to Home Satellite (DTH), Digital Satellite News and Sport Coverage (DSNG), International Fibre Distribution, Teleport Services and 24/7 Master Control, Mobile TV, Business TV, GlobeCam, Global Satellite Monitoring and Disaster Recovery.

GlobeCast Australia partners with the world's leading Channel Providers, Broadcasters, Sporting Federations and News Organisations to deliver their services within Australia and Internationally. We are the operator of choice in Australasia when it comes to offering timely, reliable, cost-efficient and creative broadcast solutions.

About Newtec (www.newtec.eu)

Newtec is one of the European market leaders in Satellite Communications, offering highly reliable products and solutions including DVB-S2 modulators and modems, Digital TV & Radio Distribution and Exchange networks, IP Broadband Access Networks as well as software solutions for the optimization of Internet traffic to customers worldwide.

With its ambitious policy of re-investment in R&D, Newtec is recognized as a forerunner in several innovative satellite communication technologies, which have been published as industry standards (DVB, DVB-S2, DVB RCS and iSatTV Cenelec pr EN50478).

Established in 1985, and headquartered in Belgium, the company has regional offices located in Stamford (US), Singapore (Singapore), Beijing (China), Dubai (UAE) and São Paulo (Brazil).

Newtec's Tellitec[®] IP software products for Internet traffic optimization and data communication are engineered in Newtec's research and development facilities in Berlin (Germany). Newtec's subsidiary TurboConcept in Brest (France) develops Intellectual Property Cores for turbo and LDPC building blocks.

About Lumina Broadcast Systems (www.luminabsa.com)

Lumina Broadcast Systems offer quality products and services to the radio and television broadcast industry, providing sales, design, commissioning, maintenance, service and after sales support for the products and services the company represents in Australia and New Zealand. Lumina's mission is to provide the clients with the services and products that best meet their expectations and budgets.

The company is led by Peter Warren, General Manager/ Sales and Marketing. Before founding Lumina Broadcast Systems, Peter was Sales Manager for Broadcast Products at UGL – Communications. Prior to that Peter was the NSW/ACT Sales Manager-Broadcast Products at REXEL Australia. With over 30 years experience in the film, television, radio and telecommunications industries and most recently digital cinema, Peter has considerable knowledge of the technological challenges broadcasters face today and the emerging applications for digital media which cross all segments of this industry.

Contacts

John Graham
Commercial Manager



GlobeCast Australia

T: +61 2 8258 7900 F: +61 2 8258 7990
john.graham@globecast.com.au
www.globecast.com.au

Peter Warren
General Manager



Lumina Broadcast Systems Aust P/L

T: +61 2 9113 0720 F: +61 2 8572 5285
peter@luminabsa.com
www.luminabsa.com