NewSat

Global Satellite Solutions

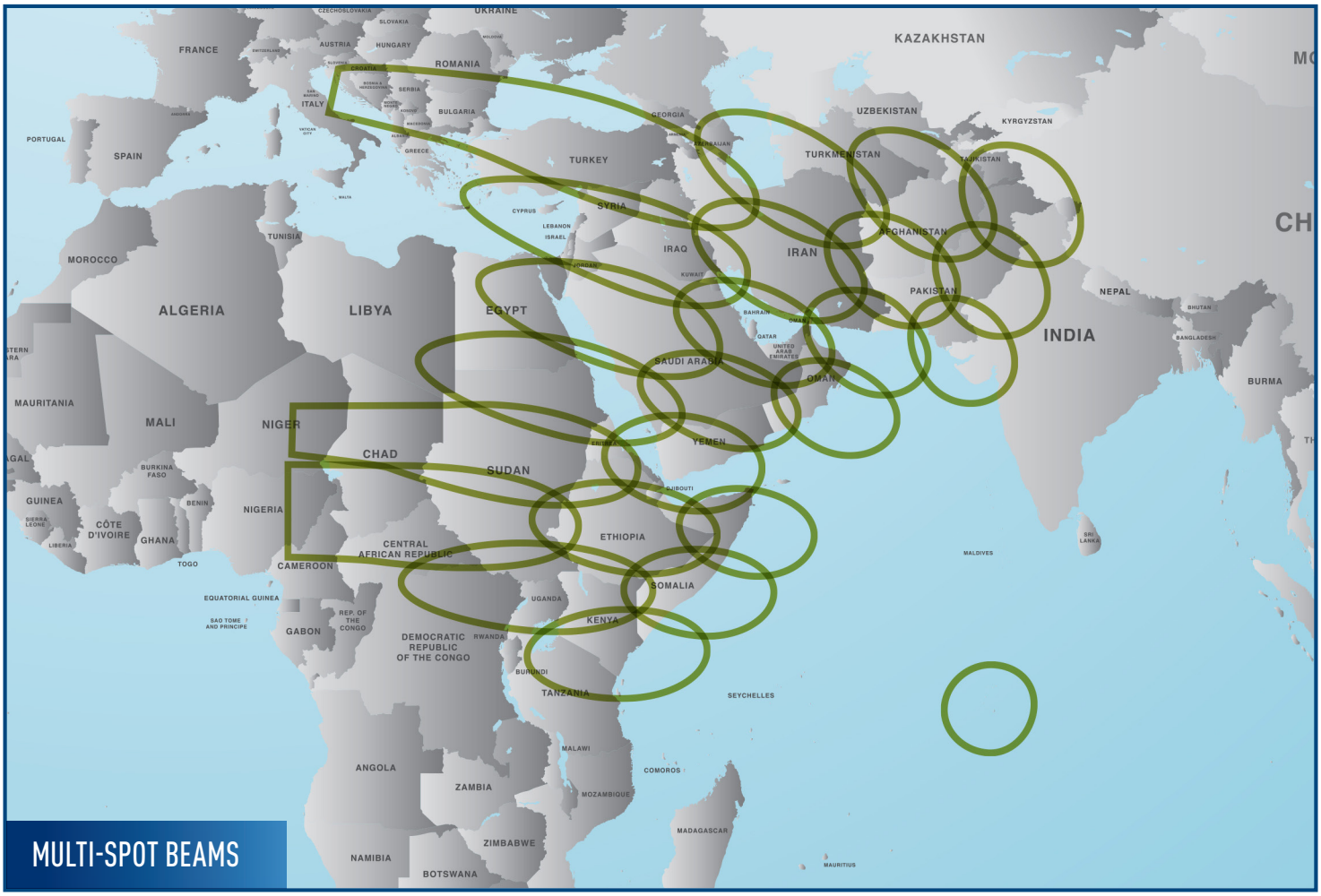
Advanced Products

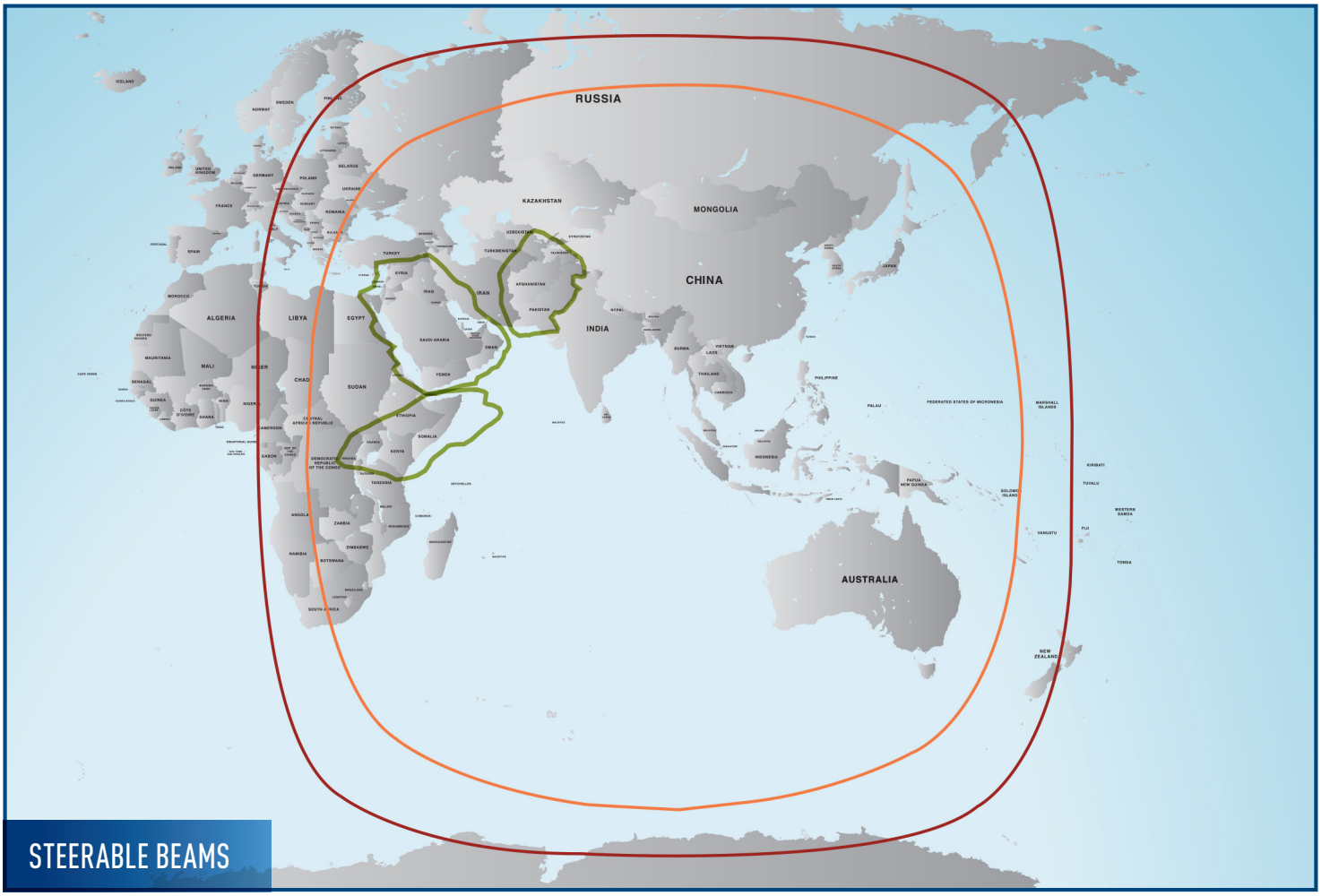
Satellites

Jabiru-1

Jabiru-1 will deliver over 7.6 GHz of capacity, providing high-powered Ka-band coverage, to meet the growing demands from government and enterprise sectors across the Middle East, Asia and Africa.

Jabiru-1 coverage





LOCATION	
Orbital type	Geostationary
Orbital location	91.5° East
Geographic coverage	The Middle East, Asia and Africa
SATELLITE	
Expected launch date	2016
Operational life (years)	15
Satellite status	Under construction
Satellite supplier	Lockheed Martin
Type of satellite	A2100 AXL spacecraft
Launch vehicle	Ariane 5
Stabilisation	3 axis
Channel polarisation	Circular, LHCP and RHCP
BEAM/S	
Type of beam/s	Regional, multi-spot, steerable
Number of beam/s	3 regional 24 multi-spot 2 steerable
Band	Ka
Total capacity (GHz)	7.6
Target markets	Government, oil, gas, mining and carrier-grade telecommunications

Advantages of Jabiru-1's Ka-band

- "Raw" capacity, not managed services
- "New" capacity, to supplement C- and Ku-band
- Regional beams like C- and Ku-band
- Steerable beams to accommodate evolving customer requirements
- Spot beams to provide high volume, highly focused coverage
- Connectivity between beams for added flexibility
- Higher bandwidths and speeds
- Smaller end-user antennas and increased mobility
- Cost-effective network deployments
- More efficient support of high bandwidth applications
- Targets enterprise and government markets
- Dedicated support with high quality, adaptable and secure connectivity

Jabiru – An iconic Australian bird

The satellite program takes its name from the indigenous term for "stork" and is the only bird of its kind in Australia. Found in remote regions, the Jabiru is an iconic bird, a strong and unique symbol to lead Australia's space quest.

Jabiru-1

Jabiru-1, Australia's first commercial Ka-band satellite, will deliver 7.6 GHz of capacity, providing high-powered Ka-band coverage through a range of flexible payloads. Jabiru-1's "new" capacity will meet the growing demands from government and enterprise sectors across the Middle East, Asia and Africa.

"Raw" capacity, not managed services

Jabiru-1 will provide enterprise and government customers with "raw" capacity, not managed services (megahertz, not megabits). The open architecture enables Jabiru-1 customers to have complete control over their own network implementation, rather than having to constrain their communication requirements to fit within the limits of a pre-defined managed service solution.

Regional beams with "new" capacity

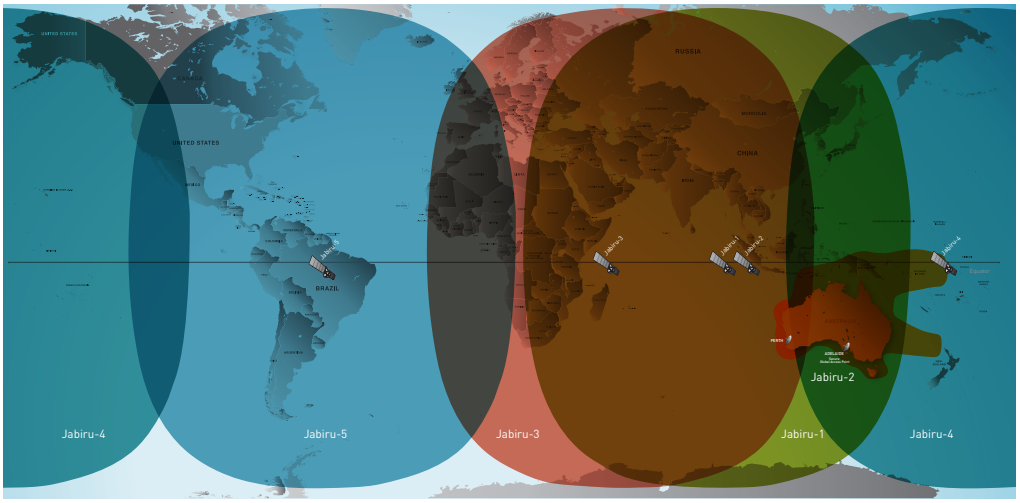
Jabiru-1's three regional beams will provide coverage over South West Asia, the Middle East and East Africa. The regional beams will essentially act like traditional C- and Ku-band capacity beams, but will provide much needed "new" capacity to meet the expanding demand for connectivity in these regions. These beams will enable existing satellite services to grow and assist with the communication requirements of new markets and developments.

Steerable beams to accommodate evolving customer requirements

Jabiru-1's two steerable Ka-band beams can be independently located anywhere within Jabiru-1's footprint. This built-in flexibility means Jabiru-1's steerable beams can be positioned to focus on a particular region or moved to support evolving customer requirements, providing fresh capacity into high demand regions and connectivity to where it is needed most.

Spot beams for highly focused coverage

Jabiru-1's 24 multi-spot beams connect via three secure gateways in South Australia, Western Australia and the Mediterranean. Jabiru-1's spot beams will provide high volume, highly focused coverage, ideal for high-throughput applications, trunking and other carrier-grade services.



Jabiru Satellite Program

The Jabiru Satellite Program's fleet of satellites will deliver high-powered coverage for government and enterprise environments around the world. The satellites will initially focus on the Middle East, Africa, Asia and Australia, with longer-term coverage extending into the Pacific Ocean and the Americas. Through Ka-band technology, a range of beam options, flexible payloads and extensive teleport operator experience, the Jabiru Satellite Program will deliver "new" and "raw" capacity to high demand markets. NewSat has the rights to eight premium orbital slots and its fleet of next generation geostationary satellites will lead Australia's space quest.

For more information

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