

Why the Aprisa XE delivers a high-performing cost-effective alternative to VSAT

The Aprisa XE is the perfect replacement for opex-draining VSAT links. With high capacity and low latency over a long distance, it virtually eliminates operational expenditure and delivers a rapid return on investment. Here are 4RF's ten most frequently asked questions about how the Aprisa XE compares to VSAT, together with a real-world deployment scenario:

1. Can the Aprisa XE really replace some of my VSAT links?

Yes: VSAT is not the only technology that can reach remote locations. The Aprisa XE can reach distances of up to 250 kilometres with a single link, ideal for reaching rural and remote locations, usually much more cost-effectively than VSAT.

2. How does the Aprisa XE's operational expenditure compare to VSAT?

The monthly rental cost of VSAT links varies considerably depending upon the country of operation and the capacity required. The Aprisa XE virtually eliminates operational expenditure and the return on investment for the capital expenditure can be typically counted in months rather than years.

3. What about the costs for data capacity?

Data costs with VSAT very quickly become prohibitive as capacity requirements are increased. With the Aprisa XE, up to 65 Mbit/s of capacity is provided as standard with a single link, suitable for even high bandwidth applications.

4. How does the Aprisa XE's deployment time compare to VSAT?

Where rapid deployment is critical, VSAT can be a compelling choice, but this advantage is outweighed by longer term cost implications. Some of 4RF's customers have deployed Aprisa XE links in less than a day. This is due to the sheer ease of its deployment, as discussed below.

5. What about the ease of deployment?



While VSAT deployment is 'easy' because it uses a third party operator, the Aprisa XE is itself straightforward to deploy, with minimal site acquisition and civil requirements. Its lightweight antenna maximises location options, unlike VSAT where the need for a clear view of the sky complicates deployment options. Its performance benefits greatly outweigh this initial deployment overhead.

The Aprisa XE in brief

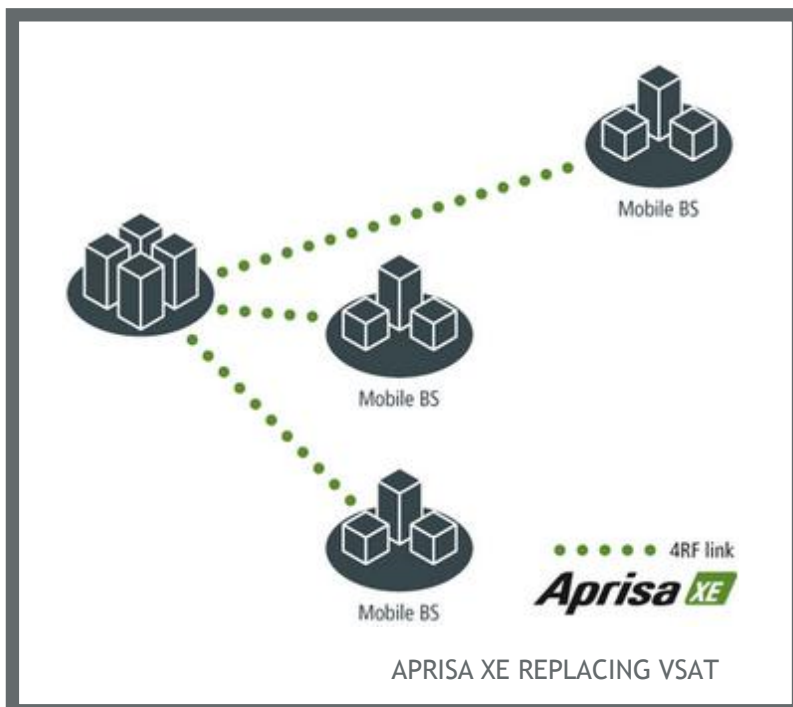
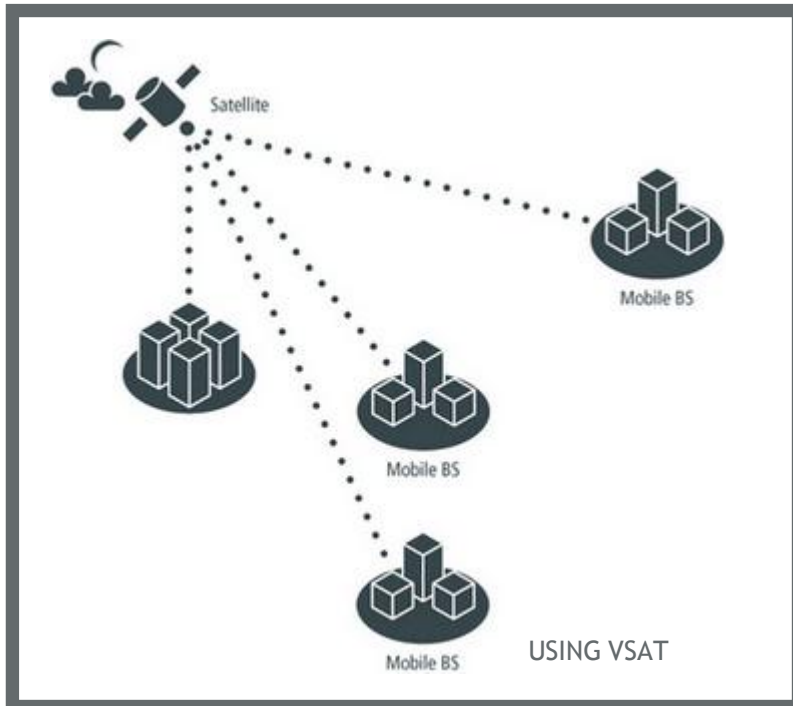
- Highly flexible point-to-point microwave link
- Accommodates all data, voice and IP traffic requirements on a single future-proof platform
- Industry-leading platform: goes the greatest distance, delivering the greatest capacity
- Technically and financially outperforms VSAT

Deployment scenario

For a 4RF customer in Indonesia, the monthly rental costs for a VSAT mobile backhaul service were undermining the economic viability of the mobile base stations. 4RF deployed a network of Aprisa XE links to replace the VSAT services. As a result, the customer's operational expenditure was virtually eliminated and the network rapidly paid for itself, with a return on investment time of less than six months.



Aprisa XE



In conclusion

While the use of VSAT services enables a relative simple network configuration, the problems of acquiring roof rights, high latency, susceptibility to environmental conditions and spiralling data costs frequently undermine the economic viability of this option.

4RF has deployed many VSAT replacement links in excess of 100 kilometres, providing greater throughput, better availability and significantly reduced system latency, with a superior business case and rapid return on investment.



Aprisa XE

THE ISSUE	VSAT	APRISA XE
Remote locations	Possible	Up to 250 km links
Operational expenditure	Varies but expensive	Virtually eliminated
Increasing data capacity	Becomes prohibitive	65 Mbit/s as standard
Deployment time	Third party-dependent	Can be rapid
Ease of deployment	Site location issues	Very easy
Management overhead	Third party-dependent	Easy network management
Carrier-class availability	Not usually achieved	99.999% availability
Service level agreements	Not usually offered	Easy to incorporate SLAs
Latency	High	Significantly lower
Environmental impact	Signal fades	Minimal impact



ABOUT 4RF

Operating in more than 130 countries, 4RF provides radio communications equipment for critical infrastructure applications. Customers include utilities, oil and gas companies, transport companies, telecommunications operators, international aid organisations, public safety, military and security organisations. 4RF point-to-point and point-to-multipoint products are optimized for performance in harsh climates and difficult terrain, supporting IP, legacy analogue, serial data and PDH applications.

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