How rugged? SkyWave’s IsatData Pro (IDP) terminals were put through extreme data requirements in a harsh and dusty environment with an impressive outcome.

The Ultimate Stress Test: Transmitting detailed GPS position data for 10 hours from a tough, four-wheel vehicle over 100 sq km of rocky bush in intense 40°C conditions.

SkyWave’s IsatData Pro satellite-cellular terminals were installed on all-terrain vehicles traversing the African wild back country during the “Rhino Charge” off-road vehicle rally aimed at raising funds and awareness for the Rhino Ark Charitable Trust. The course includes checkpoints scattered over approximately 100 sq km of rough terrain, including ravines, boulder fields and dry river beds, proving to be a challenging setting for any security, safety and tracking application. SkyWave’s IDP terminals proved their worth by recording GPS data every two seconds using the DataLogger feature of the terminal and sending all those GPS positions over the air every five minutes. Since SkyWave’s rugged terminals are designed to withstand extreme environments, they provided the fast and reliable communications that were expected in this out of reach location.

Results: The challenging conditions did not impede IDP’s reliable, seamless transmission of vital GPS position data over the course of 10 hours.

The journey demonstrated that SkyWave terminals operating over the IsatData Pro network can provide uninterrupted and stable connectivity for large transmissions even when the conditions surrounding the devices are severe. The terminals performed predictably and consistently, delivering all the data at regular intervals throughout the 10 hour period, demonstrating the durability and resistance of IDP in Africa’s wilderness.
SkyWave Satellite & Satellite-Cellular Terminals

SkyWave’s rugged terminals provide reliable communications and are specifically designed to operate in some of the world’s harshest and most challenging environments, far from the reach of most communications systems. They allow fleet managers to take advantage of both satellite and cellular communications, while complying with government regulations.

SkyWave satellite terminals/modems offer cost-effective, ubiquitous coverage for sensor monitoring (i.e. fuel levels), two-way driver communication, panic buttons and more.

Designed to meet the unique needs of each solution, SkyWave solutions are engineered for:

- Tough environments and extreme regions
- Reliability and dependability
- Use as primary or backup communications
- Cost-effectiveness—you pay only for the data that is sent

IsatData Pro Network Service

All SkyWave satellite applications and services use the trusted Inmarsat constellation – a fully funded, launched and operational satellite network with a commercial life beyond 2023.


Reliability & Dependability: Inmarsat is the most respected constellation and is mandated by governments for safety to save lives.

Stable Investment for Customers: Terminals installed today will remain in service long after our competitors’ terminals.

About SkyWave Mobile Communications

SkyWave Mobile Communications is a global provider of satellite and satellite-cellular devices and services for the Machine-to-Machine (M2M) market. SkyWave’s products provide dependable communication, tracking, monitoring and remote management of fixed and mobile assets. Since 1997, SkyWave has designed, manufactured and shipped more than 750,000 Inmarsat-based satellite terminals to customers globally in the transportation, maritime, oil and gas, utilities and government sectors. For more information, please visit [www.skywave.com](http://www.skywave.com).

CASE STUDY - IsatData Pro Robustness & Dependability