In today’s world of critical cloud based applications, real time and streaming media demands, and critical communications demands, it is imperative to maintain a high quality link at a stable throughput level.

Traditional SCPC systems utilize a predetermine symbol rate and adjust the power levels and MODCODs to provide a level of resilience to weather and interference issues. While this is effective in maintaining the RF connectivity it does so at the sacrifice of the total throughput on the link, and once this threshold is met or exceeded you lose your link altogether.

Alternatively, a few advanced TMDA systems can maintain a relatively stable throughput but do so by changing the position and amount of data transferred in the timing plan. While this is better at maintaining a constant throughput it introduces high jitter to the link making latency sensitive applications inoperable.

To counteract the potential rain fade losses in both the SCPC and the TDMA scenarios, satellite operators build in “Rain Fade” Margin to provide a level of robustness to the link before the throughput is degraded by the weather. This adds to the total overall cost to the link, as space segment is being allotted for the “just in case” scenario. This additional cost added to every link and is charged to the customer regardless if they need it or not.

The MAVERICK VSAT Service offers Guaranteed Bit Rate Service due to advances in technology that allow us to change all the factors on your link from symbol rate to coding and modulation - leaving the only constant factor in the equation as the throughput required. Unlike traditional service delivery methods that only focus on maintaining “connectivity” at the RF level, MAVERICK technology changes the actual RF carrier parameters to instantly guarantee the traffic you are subscribed to without introducing any extra additional Jitter to the network so mission critical latency sensitive applications work seamlessly during the weather event.
Rain fade forces customers to pay for costly additional space segment so they are prepared for weather and interference events. By leveraging MAVERICK’s industry leading RF switching capabilities, we are able to add additional capacity to our entire service offering instead of charging our customers on a link by link basis. This saves the customer money by absorbing the rain margin into our entire network and guarantees your services are available when and where you need them.

Most hub technologies work on a “set it and forget it” mentality where throughput is a predetermined service plan level, and adjustments are made simply to maintain a level of connectivity. This methodology does not factor in the required traffic from the site, nor does it guarantee that you will receive the bit rate established in the service plan. MAVERICK employs modems that sense the required bit rate from the network and adjusts its carrier settings accordingly, to ensure that you get full use of your throughput service plan, even if the environment is less than ideal.

These service advancements, coupled with the throughput sensing features of the modem, allow the MAVERICK service to truly be able to offer our customers Guaranteed Bit Rate Services. Raising the bar even further, the MAVERICK service can also guarantee the bit rate throughput of specific critical applications, layered with our highly sophisticated protocol sensing QoS systems that are built into every product offering in the MAVERICK line.

**Add on Services**
Network Innovations is a Global end-to-end network provider and can customize solutions for all networking needs.

- IPL / Backhaul options for all Links
- Secure Data Center
- VolP services with the ability to provide global DiD’s
- L-Band backup solutions
- Field Support Engineers deployed worldwide

---

**Network Innovations**

Communicate. Anywhere.

**Americas**
Calgary, AB, Canada
Fort Lauderdale, FL, USA
Tampa, FL, USA

**Europe**
The Netherlands
London, UK

**SW Asia/Middle East/Africa**
Kabul, Afghanistan
Djibouti

**SE Asia/Pacific**
Singapore
Australia

**Contact**

www.networkinv.com.com
Maverick@networkinv.com

US: +1.954.973.3100
CA: +1.403.287.5000
EU: +31.40.295.3001
UK: +44.20.8286.6768
SG: +65.6274.0811