TMAC - TURBO MEDIUM ACCESS CONTROL

MIMOMAX'S NEW MEDIUM ACCESS SCHEME FOR THE TORNADO RADIO PROVIDES BOTH FASTER UPLINK DATA RATES AND CONTENTION-FREE TRANSMISSION.

The introduction of symmetrical capacity for both uplink and downlink traffic results in a much higher user data rate than with the standard MAC – typically up to 70% higher user data throughput in the uplink.

Central management by the base station (as opposed to random access) via a combination of fast polling and scheduling ensures a more even sharing of the uplink between different remotes, resulting in system-wide Quality of Service. Transmission priority is managed by the base station and is based on the priority level of the data from each remote. By providing equal allocations for all remotes which share the same priority, TMAC ensures all remotes get serviced in a reasonably short period of time.

Contention-free transmission is also ensured by only permitting one remote to transmit at a time, thereby allowing links to be more heavily loaded.

KEY FEATURES & BENEFITS

- Uplink data throughput typically 70% higher than with the standard MAC
- More stable latency in heavy traffic in a multipoint network
- Fast-polling and scheduling for efficiency
- Contention-free transmission
- Central management by the base station for system-wide Quality of Service
- Works on the existing Tornado hardware - all existing frequencies and bandwidths
- Equitable sharing of the uplink between remote radios