Crypto A.M. shines its Spotlight on Aeroband

David Edmunds and Brendan O'Callaghen duck to the beat of Aeroband's thumping bass drum and thrumming electric guitar. They have been using their 40 years of technical experience to instil the discipline of the military into their eight-piece band with the aim of making the aviation industry safer. However, the trio of engineering graduates from Cranfield University have been described by one critic as 'a bit like the Rolling Stones'.

Their latest album, 'Sanctuary', is available to stream on Spotify. Twenty new songs on the album shed light on the band's journey from their training camp in the West Midlands to their current home in the Cotswolds. The album is produced by a range of artists including Grammy Award-winning producer Mike Hedges, who has worked with artists such as David Bowie and Phil Collins.

For more information on Aeroband's music and upcoming tour dates, visit their website at www.aerobandmusic.com.

Wireless Mesh Networks: Connecting the Unconnected

As the aviation industry to see the slow demise in aviation, aircraft operators are looking for alternatives to improve network connectivity. One of the promising technologies is Wireless Mesh Networks (WMNs).

WMNs can offer a single network over a wide area, providing a cheaper alternative to traditional satellite communication. They are designed to be scalable and reliable, capable of supporting a large number of users with high data rates.

In a WMN, each node acts as both a router and a wireless transmitter. Nodes communicate with each other using their wireless interfaces, forming a multi-hop communication path. This allows data to be transmitted across long distances without the need for direct line-of-sight.

Although WMNs may not be the answer in all cases, they are starting to appear in mobile and maritime environments where traditional satellite communication is not feasible.

Wireless Mesh Networks use cases:

- First responders: WMNs can provide critical network connectivity in remote or disaster-stricken areas, enabling communication between first responders and command centers.
- IoT devices: WMNs can connect a large number of IoT devices in a cost-effective manner, enabling real-time data collection and monitoring.
- Smart cities: WMNs can support the connectivity needs of smart city applications, such as traffic management and public safety.

However, WMNs also present challenges, such as the need for robust routing protocols to maintain network stability and the potential for interference from other wireless networks.

Despite these challenges, Wireless Mesh Networks are becoming an increasingly attractive option for connecting the unconnected, especially in the aviation industry.