

Engage IP-Tube E1 Selected to Provide E1/Voice Connectivity for Bahrain Formula One Racing

Requirement – Provide E1/PRI Voice Connectivity over Satellite to the Kingdom of Bahrain for the first Formula One Grand Prix race at the new Bahrain Racing Circuit – April 2004



Background – The 2004 Grand Prix of Bahrain was the first-ever Formula One Grand Prix race to be held in the Middle East. The tiny state of Bahrain measures only 48km x 16km with a population of approximately 700,000. Bahrain won the Federation Automobile International (FIA) award for the best organised race in the 2004 calendar

Implementation – For the new motorsports venue in the Kingdom of Bahrain, TeleCommunication Systems (TCS) of Annapolis, MD was called in to provide Internet connectivity and data networking. A core requirement was the transport of redundant E1/TDM connections between the United Kingdom and Bahrain – enabling the delivery of British Telecom dialtone to the Bahrain Racing Circuit.

TCS selected IP-Tube E1 technology from Engage Communication, Inc. for the E1-over-IP requirement.

Network Engineers from TCS were familiar with Engage's Serial Data over IP technology. TCS has integrated IP-Tube RS530 units into their SwiftLink deployable communication systems, enabling transport of encrypted serial data over IP satellite connections. Based on the ease of configuration, compact size and reliable performance of the IP-Tube RS530, the choice of the IP-Tube E1 for the Bahrain requirement was an easy one.

A 5.6 meter antenna was installed for VSAT connectivity, providing a total of 45 Mbps over two channels. TCS configured the connection to provide 20 Mbps connectivity to the TCS teleport in Manassas, VA USA and a 25 Mbps link to the UK.

The UK connection carried 6 E1 connections: Engage IP-Tube E1 units provided transparent encapsulation of Primary Rate ISDN E1/TDM frames into IP for transport over the VSAT connection.

About Engage Communication

Engage Communication, incorporated in 1989, enables multi-site enterprises, small-medium businesses, government, education and telecommunications service providers to take advantage of the lower costs and flexibility associated with IP/Ethernet transport while preserving the enormous investments made in legacy premises equipment such as PBXs, switches, multiplexors, routers, video codecs, encryptors...

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