Sypes Canyon Communications, Inc.
Bozeman Montana

EN 301-441 Conformance Statement

24 April 2012

The Myte transmitter (SCC-002) complies with the Control and Monitoring functions specified in EN 301-441, wherein the architecture of the transmitter applies. Some of the directives refer to attributes not present in the transmitter, for example control channels.

As such, the Myte transmitter complies with the MES Control and Monitoring Functions detailed in sections 4.2.5, 4.2.6 and 4.2.7 and test methods specified in sections 5.2.6 and 5.2.7 of EN 301-441.

Description of conformance:

The Myte transmitter is a transmit-only device. It does not incorporate any receive capability, nor does it dynamically slave to a frequency channel of operation under network control. The Myte transmitter emits a 1.3 second transmit burst on one of 4 RF channels, specified by geographic location as specified by the network operator Globalstar. The processor/controller in the application design that incorporates the ZeMo transmitter performs this geo-centric function. The Myte transmitter supports the requirements of 4.2.7 in this manner, and the device specifications require application designers to conform as such with all geocentric network and RAS requirements.

Additionally, the Myte transmitter creates the radio carrie frequency using a phase-locked-loop (PL) RF synthesizer. This PLL creates a lock detect signal that indicates when the RF signal is locked to the onboard TCXO. This signal is monitored on the transmit operation to determine if the Myte can transmit the data signal. If the PLL lock detect fails, the Myte will abort the transmit process. The Myte is therefore compliant with 4.2.5 in both frequency and power control. Introducing a fault in the frequency generation will cause the device to abort transmission, and thus the Myte is compliant with 5.2.6.

Each Myte carries a unique network identifier (MIC). This identifier is transmitted with each on-air message. Additonally, the identifier can be queried by the application processor via the configuration and control interface. The Myte transmitter is therefore compliant with 4.2.6 and 5.2.7.

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