



Orange County Fire Authority, Fire Prevention Division

Approval of Alternate Technology as Single Path of Communication

The following technology, with the specific configuration, equipment, and requirements listed below, has been approved for use within the jurisdictions served by the OCFA. This approval letter shall be included on all plans submitted to the OCFA for alarm or monitoring systems utilizing this technology.

System Name: AES Intellinet "Mesh Network"

Transmission Technology: Primary transmission method is via One-Way Private Radio Alarm System; sites are interlinked to create a redundant network with multiple possible transmission paths; transmission path may also be via Internet/IP to central station

Method of signal and data integrity: Method 3 (other): error checking

Communicator Make/Model: AES Intellinet 7788F or 7788F-ULP Wireless Mesh Radio Alarms Communicator Subscriber Unit, suitable for use as a single path communicator with any UL-listed FACP

Receiver Make/Model: AES 7705i Multinet Receiving System

Data Throttling capable?: Yes, but does not exceed NFPA 72 limits; signals are prioritized

Central Stations: MACE CSS, Anaheim; Bay Alarm, Pacheco; Security Signal Devices, Anaheim

Special Requirements:

- Any failure of the communication path shall be annunciated at the central station within 24 hours (1-way private alarm), though connection is monitored every 5 seconds.
- Can utilize a local or remote antenna; wiring to remote antenna is required to be protected by conduit per NFPA 72: 26.6.3.3.2.3(C)
- Incomplete, corrupted, or other signal errors will be recorded and displayed at the central station.

Inspection procedure:

- Verify Daily Test signal, Network Connectivity Level of no higher than 5. Transmission paths to monitoring center can be viewed/verified by routing table and netcon reporting generated via remote access or by hand-held device at customer premises.
- A break in the connection to the antenna is required to annunciate a failure on-site or transmit a trouble signal to the central station.

SR 189778 7/26/13
rev. 10/23/13
rev. 6/24/15