

Experimentation Purpose and Plans

November 2, 2011

L3 have performed successful development and testing of their satcom on the move system under experimental licensing. Development and verification activities have improved the product and have helped to achieve customer and satellite operator confidence.

L3 wishes to continue activities under an experimental license.

Experimentation Activities Anticipated

- Verification of features and functions by L3 at their facilities in La Jolla, CA and Simi Valley, CA
- Verification, trials, and demonstrations with the Army at various locations in the USA
- Propagation and performance measurements under various environments and terrains within the USA

Permanent License

- L3 have filed for, and have recently received, a VSAT/Blanket license for multiple earth stations (Call Sign E060390)
- Conditions of the permanent license (ie. Data logging) require additional development of the product before the license can be used.
- The US Army will likely seek approval for its operations under the NTIA

Duration of Experiment

- L3 will continue development and verification of new features that will require testing over satellites for many more years

Number of Active Terminals

- To date, about 100 terminals have been produced and used in system verification by L3 and by the US Army (with L3 support)
- Testing activities typically last from a few hours to one to two weeks
- It is common to have more than one network operational at one time (ie. Multiple hubs) at more than one location
- A terminal that is active is one that is registered to a network. An active terminal may or may not transmit data depending on needs of the connected equipment. The system utilizes a demand assigned protocol.
- Each network could have from 1 to 40 active terminals
- It is unlikely that more than 50 terminals would be active at one time
- The terminals that are active change from experiment to experiment
- Typically the total bandwidth used by a network is 9 to 18 MHz which is shared by the terminals registered to each network

We request the continuation of the experimental license for 2 years.

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