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(71) Applicant: **THALES AVIONICS, INC.** [US/US]; 58 Discovery, Irvine, California 92618-3105 (US).

(72) Inventors: **PANTHI, Sunil**; 2802 Amethyst Way, Melbourne, Florida 32940 (US). **TONNERRE, Arnaud**; 3300 Gatlin Drive, Rockledge, Florida 32955 (US).

(74) Agent: **PURKS, David K.**; Sage Patent Group, P.O. Box 30789, Raleigh, North Carolina 27622-0789 (US).

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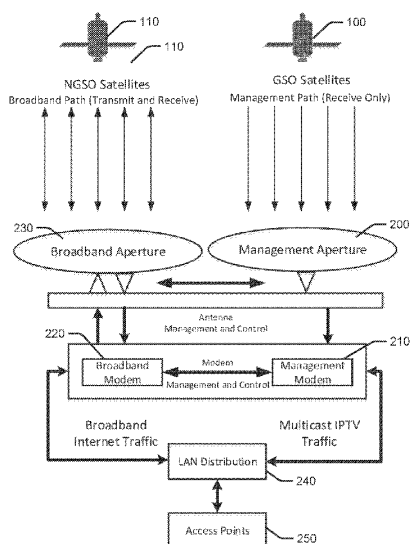


Figure 2

(57) Abstract: An aircraft based satellite communication (SATCOM) terminal includes a broadband aperture configured to communicate through non-geostationary orbit (NGSO) satellites for broadband communications, a management aperture configured to receive NGSO satellite management information from a geostationary orbit (GSO) satellite, and at least one processor that performs operations. The operations receive the NGSO satellite management information from the GSO satellite, where the NGSO satellite management information indicates positions and associated time of a set of the NGSO satellites. The operations acquire a second communication link with a second NGSO satellite among the set using the NGSO satellite management information during handoff switching from using a first communication link that was previously acquired with a first NGSO satellite to using the second communication link being acquired with the second NGSO satellite. The operations then perform broadband communications through the broadband aperture and the second communication link with the second NGSO satellite. Related ground-based control centers are disclosed.

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