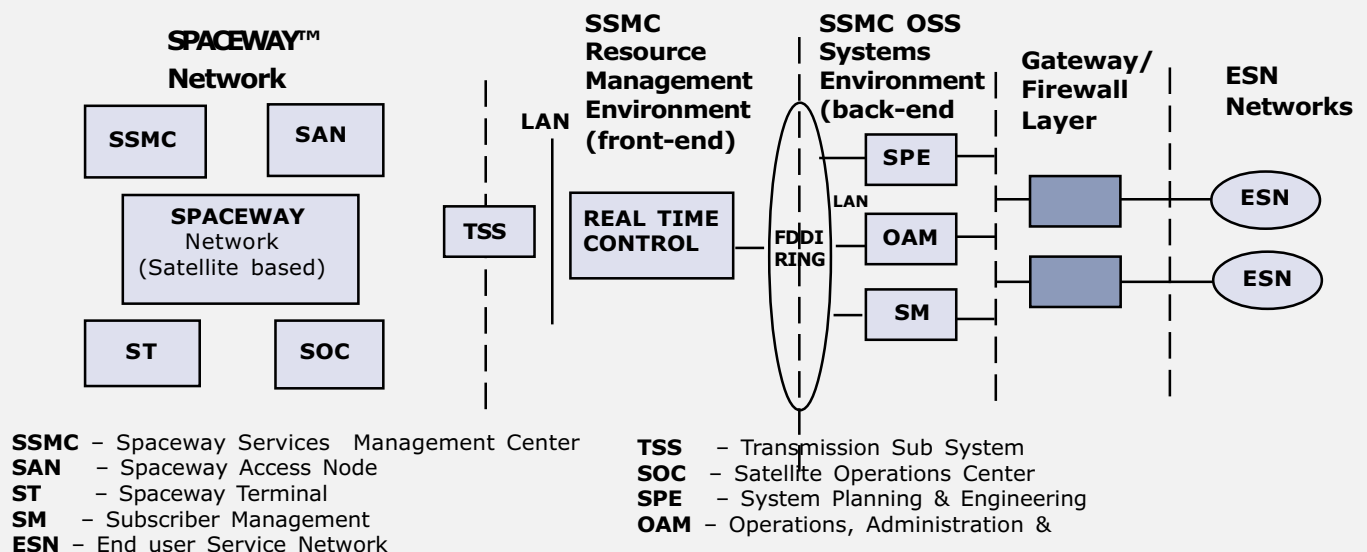


The SPACEWAY system was being developed by Hughes Communications Inc. of Long Beach, California. The scope of the project was to provide ubiquitous telephony, Internet access and Private Data Network (PDN) facilities using a geo-stationary satellite network. The intention was to have special equipment on the ground such as Access Nodes and Terminals using which end users would have high speed, on-demand bandwidth.

The challenges in defining the network management architecture were to make it scalable, interoperable, and to seamlessly integrate with the Network Management Systems (NMS) of existing telcos, ISPs and other entities who would potentially utilise the services of SPACEWAY. Network element level management was also planned for to provide Access Node and Terminal level configurability and control.

Some of the technologies that were investigated included Telecommunications Information Network Architecture (TINA) and Telecommunications Management Network (TMN).

### SSMC Solution Architecture Overview



Hewlett-Packard was awarded the contract to carry out the project with the initial phase being a study task or pre-analysis to better define the various concepts. Ramssoft was part of the core team involved in this phase. Ramssoft's specific task was the detailed study and definition of the various management concepts related to the network. Ramssoft's involvement; both on-site and off-shore was by way of authoring many of the Ops Concepts (Operations Concepts) in the areas of trouble shooting, fault detection and correction and general network management.