

SASS - Satellite Based Alarm and Surveillance System

Applications: Disaster Relief/Emergency Management



"The SASS system is a cost effective solution to provide connectivity for alarm and security systems where terrestrial broadband networks with the transmission performance mandatory for security applications are not available or more expensive to use."

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PROFILE:

The SASS project has developed a Satellite-based Alarm and Surveillance System. The system, which is now being tested in a three month field trial phase, provides connectivity between alarm and surveillance systems at one end and security centres or other receivers at the other end.

The SASS system makes use of DVB-RCS compliant satellite networks and supports the transmission of alarm information, live video pictures, bi-directional audio and IP data. The following solutions have been successfully implemented:

1. A Satellite Alarm Terminal (SAT) with built-in interfaces for certified alarm systems, CCTV cameras, audio equipment and data devices.
2. A Satellite Transmission Service providing reliable connectivity between the Satellite Alarm Terminals and security centres as well as other receivers.
3. A Network Management System which controls and monitors the connections via the DVB-RCS and terrestrial network segments with Quality-of-Service compliant to the requirements for alarm transmission networks with the highest performance classification.

The ongoing field trial involves a number of Satellite Alarm Terminals installed at end user premises and two different security-centre operators. The main objective is to validate the performance of the network resources management functions for different traffic priorities and qualities, both from the technical and the user point of view. The project is expected to be completed by the end of 2005. Subject to the results of the trial phase, commercial operation is envisaged to start early 2006.