

Norway's Gardermoen Airport expands CCTV surveillance system with IP technology



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Industry:

Transport/Airports

End User:

Gardermoen Airport, Oslo, Norway

is located about 47 km north-east of the capital, Oslo. Built in 1998, it is still an example of state-of-the-art transport facility technology and was recognized in 2007 as Europe's most efficient airport by the Air Transport Research Society (ATRS). The prize is based on productivity, efficiency and competitiveness, combined with strong growth in passenger traffic and convenience of air routes.

Business Objective:

The rising number of passengers led to the need to expand facilities, both in services and in the number of arriving and departing flights. The expansion included additions to the original Bosch analog CCTV surveillance system installed when the airport was built, at that time one of the best systems available. The addition to the system needed to be based on current technologies and equipment, to be in line with the modern expansion of the rest of the airport's facilities.

Solution:

The Bosch analog CCTV system comprises about 600 fixed and AutoDome PTZ cameras connected to an Allegiant 8900 modular video switcher/controller and monitored by 60 operators. The Allegiant 8900 switcher functions as a master matrix and is connected to two satellite matrices (Allegiant 8800 and Allegiant 8600) in other buildings. It was decided to extend the system with IP-based cameras, a management system, and encoders and decoders, to take advantage of the existing Ethernet infrastructure and its inherent flexibility. 10 VIP X1 compact, single-channel IP encoders and 10 VIP XD decoders provide dual video streaming and display in single or quad view. Bosch's VASA hybrid IP integration software embedded in the encoders ensures smooth migration from analog to IP with full end-user transparency.

50 IP cameras of the Dinion and AutoDome types were added, mainly in public areas, and could be easily connected without disturbing or switching off the network. The entire system is controlled using Bosch's Video Management System (BVMS), a unique enterprise IP video security solution that provides seamless management of digital video, audio and data across any IP network. Designed to work with Bosch CCTV products as part of a total video security solution, BVMS allows Gardermoen Airport to integrate its existing components into



The domestic concourse entrance

one, easy-to-manage set-up. Because it enables live and recorded video images of any site to be viewed at any time, from any location, the BVMS provides complete management and control of the airport's CCTV installation.

Result:

Gardermoen Airport is a perfect example of how a legacy analog CCTV surveillance system can be easily and efficiently expanded using IP technology and existing Ethernet cabling. New control rooms have been provided to manage the extended system. A key advantage for operators, enabled by the BVMS, is that they can select any camera, whether analog or IP, using either the conventional PC keyboard or the BVMS graphical user interface (GUI). When using the GUI, camera selection can be made from either map-based graphics or a camera tree where both analog and IP cameras are displayed. It is also scalable, which provides the flexibility of adding to the system. Further expansion is planned and may include the addition of Network Video Recorders (NVRs).

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