AIRPORTS

Flying high with network video

BAXALL
LIMITED

Flying high with network video

Airport security is understandably a hot topic and high on the priorities of international security bills. How do we ensure an airport is protected from intruders attempting to gain access around the perimeters, for example? How do we stop passengers taking potentially dangerous items on to an airplane? How can we best ensure the safety of staff and visitors to the airport?

When you have airports that are as busy as Heathrow, for example, this can seem a virtually impossible task as employing security systems can often mean slowing the traffic of people and vehicles down, which is a major problem when your aim is to get those people in and out of the airport as quickly as possible.

CCTV is a tried and trusted means of providing surveillance for safety, security and even traffic control at airports without causing this interruption. It's success has been well documented. But with the development of video over IP networks – especially over Ethernet - we are now able to take CCTV surveillance and security into a new realm, making it a more flexible and cost-effective tool.

VIDEO OVER IP - WHAT DOES IT MEAN?

IP is one of several protocols that enable 'data' to be transmitted and controlled over networks. This protocol can be used over any physical network, such as Ethernet, token ring, ISDN, etc.

Baxall has developed the Destiny-IP 'video network' solution, to send high resolution, real-time, digital video, together with audio and data. As IP is the de facto network protocol, it means Destiny-IP can be used to send video images across an Ethernet network which can be configured as a LAN, MAN or WAN.

" With this new Ethernet based system, we really are investing in the future. "
BIAC

SO WHO BENEFITS?

Video over IP really does open up a realm of possibilities for both security installers, network integrators and airport authorities.

For installers, the flexibility of the equipment means branching out into new areas, combining the video platform with a host of different applications. This allows the integrator to provide a more comprehensive and higher value solution. Destiny-IP can be readily integrated into access control, intruder alarm, building management systems, fire alarms and other applications.

For the airport authority it represents a real cost saving and convenience as existing network infrastructures can be used. In addition the network video equipment can be applied to non-security applications, such as research and as a personnel or management tool.

Video images can be accessed by any authorised user on the network, each user potentially having an entirely different application and therefore deriving different benefits. This has been demonstrated on applications as diverse as Airports and Retail Centers.

scaleable, so no matter how our plans for the airport may change to meet future circumstances, the CCTV system will be able to adapt to them; this is excellent in terms of cost effectiveness and convenience."

Belgium systems integrator ENI designed the system to be as flexible as possible whilst ensuring a competitive tender, as Bruno Depre, Head of System Engineering, explains: "We designed a CCTV system that could use much of the airport's existing cabling infrastructure to keep installation costs down. By using the existing network, we could also make the system highly flexible.

> *" We designed a CCTV system that could use much of the airport's existing cabling. "*

To do this, ENI selected the Destiny-IP range from Baxall, which will operate over an Ethernet network. ENI have integrated the CCTV with the existing access control system through its Icaros software, to make it a highly convenient package for the airport.

The security element is obviously the foremost consideration for the airport, but the great advantage of using a video system across an Ethernet network is its scope and flexibility; it can be used by the police, fire services, baggage handling and Customs and Excise for a variety of different purposes, at different places and all at the same time; in fact, 13 non-security users will have access to the cameras across the network. This gives it added value and makes it all the more appealing for the airport.
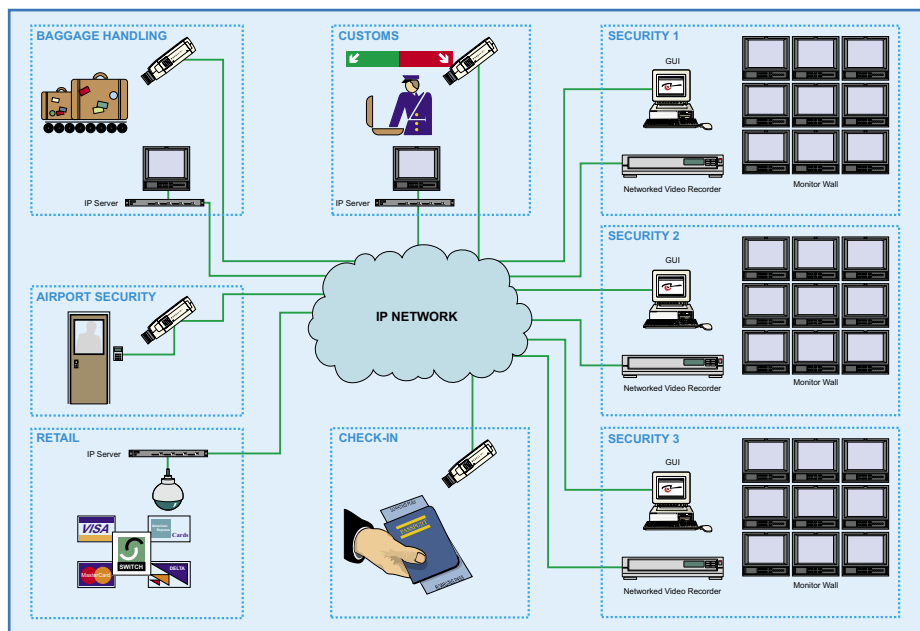
FLYING HIGH WITH NETWORK VIDEO

It's still early days yet, but a number of organisations are catching on to the many benefits of switching to an IP based video solution. Brussels International Airport Company (BIAC) has certainly been quick to do so.

BIAC have an extensive Ethernet operated video solution from systems integrator ENI, based on Baxall's Destiny-IP range. This comes as a result of the expansion of the airport, which has become one of the fastest growing, with over 21.5 million passengers in 2000.

The video system will be used to cover the entire airport - all 3,706 acres of it - and needs to allow for further expansion. According to BIAC, the proposed system does just that: "with this new Ethernet based system, we really are investing in the future. It is both highly flexible and

Typical example of network video employed in an airport environment

Flying high with **network video**

When completed, Brussels airport will have a state of the art video solution that offers 25 images per second streaming video from 600 codecs, whilst retaining existing cameras with the use of encoders. There will be three control rooms with both the familiar analog video walls and the new Graphical User Interfaces (GUIs). Without an IP based system, none of this would have been possible or cost-effective, it provides users with an incredible level of flexibility and opens up a whole new realm of opportunities for installers.

Products in the Destiny-IP range include cameras, codecs, keyboards, digital recorders and a wide range of software applications designed for single and multi-user systems.

The Destiny-IP range forms part of the Destiny-IP suite of network video solutions. The highly acclaimed Destiny-IP range of products has won numerous awards from around the globe for design and innovation including millennium awards issued by the Design Council, a PSI premier award and the MIPS award for innovation to name but a few.

MILLENNIUM PRODUCTS

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