

Vigilant secures the Tel-Aviv metropolitan traffic video system

About Tel Aviv Metropolitan Area

The Tel Aviv metropolitan area includes areas from both the Tel Aviv and the Central Districts of Israel. The area is closely linked to the city of Tel Aviv through social, economic, and cultural ties. It is located along the Israeli Mediterranean coastline.

The Tel Aviv metropolitan area is the largest metropolitan area in Israel and has an estimated population of over 3,500,000 residents. In the heart of the metropolitan is the modern city of Tel Aviv that was founded in 1909 as a suburb of the Arab coastal city of Jaffa.



The Challenge

One of the biggest challenges in the metropolitan is to efficiently manage the traffic flow and the transportation network, as well as provide traveler information through the deployment of various technologies and proactive management strategies.

Vigilant certified partner T.M.S. Ltd, a leading provider of traffic management systems solutions for private and public sector, choose Vigilant Technology NetVR recording software and NetView video management software (VMS) to replace an existing system in both Highway 20 (Ayalon freeway) and in the urban traffic control of the city of Tel Aviv.

Highway 20 (Ayalon Freeway) runs 29 km along Tel Aviv's center eastern border from north to south. It includes hundreds of electronic lane control signs and traffic measuring sites linked to the a main control center. The Tel-Aviv municipality urban traffic control center is in charge of hundreds of intersections all over the city. The traffic volume for both urban roads and the Ayalon freeway is over 1,000,000 cars passing each day.

The Solution — NetVR Recording and NetView VMS

Vigilant NetVR recording software was installed on "off-the-shelf" Dell server and storage hardware in a fully redundant solution to meet the customer unique requirements. "Vigilant's redundancy (N+1) software enables us to comply with the customer requirements for 99.9% uptime in this critical environment," Said Ehud Harel, T.M.S. Chief Technical Officer.



T.M.S. used Vigilant NetStream 2901, a low latency encoder with image stabilization capabilities, to support and utilize the various existing robust PTZ cameras installed on high polls along the freeway and the urban intersections, the cameras provide valuable real time information on road and traffic conditions to the trained operators at the Traffic Operations Centre, who monitor them 24 hours per day.

The Vigilant NetView Enterprise video virtual matrix is the heart of the control centers. It enables multiple operators to simultaneously monitor and manage the traffic flow and the transportation network of the metropolitan area. Ronen Lahav, T.M.S. project manager, explained: "The NetView Enterprise is an ideal solution as it is a flexible virtual matrix that can support our 15 monitors while offering an easy-to-use user interface for the operators. It is so helpful to be able to look at live images easily, and without fuss and whenever necessary, retrieve recorded video and export it to offline storage if and when needed."

Video images from the various camera sites are also broadcast on a website as part of Traffic and Road Information.

Vigilant in Tel Aviv **SUCCESS STORY**

NetStream 2901

The Vigilant NetStream 2901 is a powerful, high resolution single-port video encoder which enables customers invested in analog security cameras to have a cost-effective simple migration path in to an IP-video surveillance environment.



The NetStream 2901 converts the output of analog cameras into highly efficient real-time video and audio streams, and delivers them, over an IP network, to a network-based recording solution such as the Vigilant NetVR or to an IP control room solution such as the Vigilant NetView.

Utilizing H.264 encoding technology, the NetStream 2901 delivers full D1 resolution at 25 (PAL) / 30 (NTSC) frames per second, whilst utilizing significantly lower bandwidth and storage capacity than other encoding methods.

NetStream 2901 integrates the NetStream Analytics performing video content analysis at the edge based on 3D intruder detection, which eliminates the need to send video to a central server for analysis, consequently reducing network bandwidth requirements. This Vigilant feature supports active tamper detection alerts in instances where a camera is covered or masked, defocus or repositioned. This built-in content analysis for proactive management also includes a sophisticated tracking algorithm with remarkable reliability.

NetVR

NetVR, together with Vigilant NetStream advanced IP video encoders, empower authorized security personnel with maximum flexibility and freedom – enabling simultaneous access, control and viewing of live or playback video from any IP or analog camera, fixed or PTZ - regardless of user location or client device.

Designed to meet today's tough security standards, Vigilant NetVR provides unique video quality, unmatched scalability, 365x7x24 availability, and excellent flexibility. Further, featuring easy third-party interoperability with IP devices or parallel systems, and future-proof migration from legacy analog to hybrid or even pure IP environments – Vigilant NetVR helps protect existing infrastructure investment, maximizing ROI.

NetView Enterprise Virtual Matrix

The Vigilant NetView Video Surveillance Center is a fully digital management solution providing a mature virtual matrix, video-wall operation and powerful event handling. This state-of-the-art solution is more than a full replacement of the legacy analog matrices. It is a turn-key solution for the surveillance center.



The NetView center provides enhanced video handling accuracy, flexibility and alarms management. Security personnel gain improved decision-making capabilities, resulting in a higher efficiency, with less probability for human error. It has been specifically designed to achieve higher security levels in mission-critical, multi-users environments.

About Vigilant

Founded in 1999, Vigilant Technology designs and manufactures intelligent IP video surveillance solutions for enterprise class CCTV deployments in mission critical, multi-site application environments operating over enterprise LAN, wireless or carrier networks.

Vigilant's international headquarters is based in Tel Aviv, Israel. The company is a wholly owned subsidiary of BATM Advanced Communications (London stock exchange ticker symbol: BVC).

About T.M.S.

TMS is a leading provider of traffic management systems solutions for private and public sector. For over 15 years, T.M.S. has enabled customers to manage traffic on roads and highways, while increasing traffic efficiency. Integrated solutions include traffic control, surveillance, and measurement which combine state-of-the-art hardware and software from leading manufacturers.

www.t-m-s.co.il

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