

# INFRASTRUCTURES

## REFERENCE SHEET



when communication is **critical**



### MAGDEBURG BRIDGE

WASSER-UND SCHIFFAHRTSVERWALTUNG DES BUNDES, GERMANY

Thanks to this new bridge and locks, large ships can now navigate from the River Rhine via the Mittelkanal to Berlin. In order to communicate with ships and to control the different specifications outlined, exchanges linked via different types of high speed digital communication networks, such as E3 and IP, with interfacing to radio equipment for communication with ships, to public address amplifiers (so that warnings can be given to people on board the ships) and to ISDN networks to call the operators via standard mobile STENTOFON was a fairly easy one.



### AUTOROUTES DU SUD DE LA FRANCE (ASF)

HIGHWAY TOLL STATIONS IN SOUTH-WEST PART OF FRANCE

With a highway network of 3,124 km, the ASF is the largest highway operator in France and the second largest in Europe. The ASF have been using STENTOFON intercom systems for many years as security communication tools along the highways, on tolls. For the last few years, the main concern for this company has been to network all their installed intercom systems together and at the same time, move towards automated toll stations operated from a distant centre. Thus, any highway user can be quickly connected to ASF personnel for assistance, help or a quick reply to any question.



### MINNEAPOLIS MUNICIPAL PARKING ORGANIZATION

MINNEAPOLIS, MINNESOTA, USA

The City of Minneapolis comprises 19 parking facilities with a total of 22,000 spaces and has a view towards adding another 15 to 18 facilities. In addition, the Parking Association wanted to find a way to reduce the enormous costs associated with providing 'round-the-clock' security for its existing locations. A sophisticated electronic security system was quickly put in place: each location was set up with CCTV, access control and STENTOFON intercoms, and all of them monitored from a remote but central Security Control Center. The communication system entails five AlphaCom E exchanges - linked over the city's fiber backbone, and approximately 400 STENTOFON stations.



### METRO DE CARACAS

CARACAS, VENEZUELA

This project was completely handled by Zenitel in France - the radio part by Zenitel Wireless France and the Intercom part by Zenitel CSS France, using STENTOFON equipment. This very project is a renovation of the security telephone system on the three metro lines of Venezuela's capital city. The stations, located in every metro station, are telephone handsets for hook call and are of two different types: one for technical manoeuvre requests and one for emergency calls. The AlphaCom exchange, well equipped with ATLB boards, is used as a PABX. All the station calls are centralized on specially designed CRMIV control room stations, located in a remote control room, allowing a quick turnaround on these crucial calls.



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Sanef is the operator of road tolls for North East France. Zenitel has installed and maintained STENTOFON systems for Sanef for many years, with Sanef choosing to migrate to the new IP based communication solution at the end of 2005. By doing so, Sanef has been able to add the latest IP and networking technologies to an already proven and highly reliable system. All the strengths are retained – high quality audio, stability and reliability – while the core of the system becomes ‘native IP’. Highway users can make a call any time of day/night and talk to somebody to help them with the barrier, or any other sort of problem. The IP system integrates with the CCTV system so a solution of audio together with video solves any problems that users may have.



The Port of Hamina is a major commercial port in Finland just 35km from the Finnish-Russian border. Due to abundant land resources, the port offers extensive warehouse space, rail, road and shipping services for the Finnish, Russian and CIS markets. With facilities and developments spread over such a large area, the Port required an IP communication solution to link the driving gates to the control room. Three E7 STENTOFON exchanges now provide audio communication networked via fiber cable from each different port area.



Metro de Santiago, daily transporting more than 2.2 million passengers, asked Zenitel to supply “behind the scenes” communication for two new extensions to its existing network. The new ground-to-train communication system will take care of the critical communication between the train drivers and the control centre supervisors. The 2.9 million contract, including a ten year maintenance contract, also includes the improvement of the existing Control Centre. The project falls completely within Zenitel’s expertise and is based on other references such as the Paris Subway, Marseille Subway and Mexico City Subway.



During June 2009, Novatel attended the Fair of Urban Transport Silesia Communications 2009 in Poland. Poland has large conurbation areas which wish to improve the quality of public services in order to enhance their quality of life. At the show, Novatel using STENTOFON technology and equipment won an award for best product in their category: system communications for people with disabilities. Novatel presented a solution whereby the blind and hearing impaired can receive electronic travel information from an information pillar normally sited at the station. A person using a hearing aid near the panel can receive for example, timetable data; the visually impaired benefit from the assistance of a camera, which is mounted to the pillar.