

AIRPORTS

REFERENCE SHEET



when communication is **critical**



BEIJING CAPITAL INTERNATIONAL AIRPORT (BCIA) **BEIJING, PEOPLES REPUBLIC OF CHINA**

Following the successful upgrade to STENTOFON AlphaCom E in 2006, BCIA's extremely high network capacity, critical communication system is expanded into Terminal 3. Zenitel's systems are used for PA gate announcements, gate and check-in desk communications, communication with security staff, baggage areas, airline back offices and more. The new system will extend its integration to the security system, the information integration system, the master clock system, access control, public address and a PABX system via SIP trunking. Future, integration to Cisco, TETRA radio and CCTV can be made, and special applications can be created by interfacing to other 3rd party systems as annual passenger throughput increases.



SHANGHAI PUDONG INTERNATIONAL AIRPORT (SPIA) **SHANGHAI, PEOPLES REPUBLIC OF CHINA**

SPIA is currently the sixth busiest air freight hub and a major international gateway into China and East Asia. The airport employs STENTOFON standard VoIP protocols for audio encoding and control, and utilizes standard TCP/IP protocols for video and data transmissions, providing an area-wide network or broadcast and communication system at four key locations: the Traffic Operation Centre, the Airport Operation Centre, the Gate Wing and Gate Check In. The system is run by four IP exchanges connecting with Cisco Call Manager through 4 times 16 SIP trunk lines; integration is also provided to an 800m TETRA radio interface, the public network and PA. There are over 200 IP substations in the AlphaCom E system – it is possible to see the status of the stations as icons in the GUI.



DUBAI INTERNATIONAL AIRPORT **DUBAI, UNITED ARAB EMIRATES**

Dubai International Airport is using STENTOFON in their major US\$4.1 billion airport expansion programme. Further to the extensive installations of the STENTOFON barrier intercom system in Baggage Handling, Terminal 1, Concourse 1, Air Wing's and Ground Operations, the system is now being installed in DNATA and Emirates Head Quarters, Terminal 3 and Concourse 2 buildings. AlphaCom E20's and E26 exchanges are used connected in multi-module configuration. AlphaNet is used throughout. A total of 354 Dual Display & Standard Display stations provide ground operations and at gate and control areas. The whole system is interfaced with PABX, TETRA and Ground to Air VHF Radios.



SHARJAH AIRPORT **SHARJAH, UNITED ARAB EMIRATES**

It's not just passenger airports that use STENTOFON. Sharjah, an important cargo airport is undergoing an airport expansion and redevelopment project and incorporating a STENTOFON intercom system from Business Communications LLC (BCL), a company serving UAE and the Middle East. Sharjah will use an 80 line communication solution and STENTOFON's Desk/Wall Master Stations with display and handset to offer speed, flexibility and co-operation. The airport recently demonstrated the airport's ability to take care of big cargo efficiently by handling 77 tonnes in an hour.



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INCHEON INTERNATIONAL AIRPORT (IIA) **SEOUL, KOREA**

One of the largest airports in Asia, IIA adopted the STENTOFON system some years ago and extended the system again in 2008. First specified as a simple PABX, the AlphaCom has shown along the years the huge variety of its capabilities and is now the central integrated communication and security system. For the intercom, paging, PA and security communication, STENTOFON systems have been installed at the passenger terminals, perimeter areas, transportation center, and other facilities like the extended fence area, which connect to the existing system network. Other systems such as the Intruder Detection System, Access Control System, CCTV System, Voice logger and PA-system are interfaced to the AlphaCom E System. All exchanges are interconnected in a STENTOFON network (AlphaNet).



ABU DHABI INTERNATIONAL AIRPORT **ABU DHABI, UNITED ARAB EMIRATES**

A STENTOFON system is used in the Etihad Terminal of the Abu Dhabi International Airport. The communication system comprises one STENTOFON AlphaCom E7 exchange in a 19" rack and a total of 36 Master stations and IP Substations. The system is integrated to the CCTV and the Access Control system and is networked in an AlphaNet. Using AlphaNet, the Etihad Terminal has full group and conference call capability using a single VoIP channel and alternative routing of calls allows call completion even when the primary AlphaNet route is down.



DUBAI WORLD CENTRAL AIRPORT **JEBEL ALI, UNITED ARAB EMIRATES**

Working for the Department of Civil Aviation, The Government of Dubai, the new airport to be officially known as Al Maktoum International Airport will use the latest STENTOFON communication. Planned as the world's largest passenger and cargo hub, the employee and gate buildings alone will use nine AlphaCom E exchanges, the detention center – with an intercom and visitation system with voice recording solution – will use a further exchange connected to five control room master stations and various door, desk and vandal resistant stations and telephones. On completion, there will be two luxury passenger terminals and a third dedicated to low cost carriers.



OR TAMBO INTERNATIONAL AIRPORT (ORTIA) **GAUTENG, SOUTH AFRICA**

ORTIA (formerly Johannesburg International) is the air transport hub of Southern Africa. In 2003 Zenitel's partner, Techring, supplied and installed a 208 line Ring-Master Intercom System for the existing MSP1 (Multi-Storage Parking Facility). The System provides audio communications between the SOS points (Emergency Call Points), the Pay On Foot's Entry, Exit and Pay Points, back to the Control Room operators with automatic switching of CCTV cameras and logging facilities on the systems GUI. With the advent of the 2010 Soccer World Cup the Parking and SOS communications needed to be expanded by 220 points to accommodate the New MSP2 parking facility. Techring, has recently completed the installation of two STENTOFON AlphaCom E26 exchanges and interfaced them with the original Ring-Master CB901 system. The security communications for MSP1 and MSP2 are now controlled via a STENTOFON Control Room.